The document contains Safety Data Sheets (SDS) for the following products:

1. **Molub-Alloy 860/220-2 ES** Page 2
    - Product type: Grease
    - SDS #: 461673
2. **MOBIL SHC 630** Page 15
    - Product type: Circulating/gear oil
    - SDS Internet Address: www.sds.exxonmobil.com
3. **LubeCon Series I/M 200 Lubricant** Page 25
    - Product type: Chain lubricant
    - SDS #: 461134
4. **PICOGUARD 17625** Page 35
    - Product type: Water-based corrosion inhibitor concentrate
    - PICO ID: F001635
5. **RUST VETO 377 HF** Page 40
    - Product type: Antirust
    - Product Code(s): 21377200-M
6. **Spray Paint Basecoat** Page 51
    - Product type: Coating
    - SDS #: 7628

These products have detailed SDS information provided in the document, including their composition, hazards, handling, storage, and disposal instructions.

First Aid is Section 4 of ALL SDS

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name **Molub-Alloy 860/220-2 ES**

Product code 461673-DE03

SDS # 461673

Product type Grease

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/ mixture Grease for industrial applications.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

1.3 Details of the supplier of the safety data sheet

Supplier

Castrol Sweden AB
c/o WeWork
Regeringsgatan 29
111 53 Stockholm
Sweden

+46 (0)770456711

E-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY TELEPHONE NUMBER Carechem: +44 (0) 1235 239 670 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Hazardous ingredients Not applicable.

Supplemental label elements Contains Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide. May produce an allergic reaction.
Safety data sheet available on request.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Special packaging requirements

SECTION 2: Hazards identification

Containers to be fitted with child-resistant fastenings Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Results of PBT and vPvB assessment Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification Defatting to the skin.
Note: High Pressure Applications
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives. Thickening agent.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≥10 - ≤25	Not classified.	-	[2]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≥10 - ≤25	Not classified.	-	[2]
Residual oils (petroleum), solvent-dewaxed	REACH #: 01-2119480472-38 EC: 265-166-0 CAS: 64742-62-7 Index: 649-471-00-X	≥10 - ≤25	Not classified.	-	[2]
Residual oils (petroleum), hydrotreated	REACH #: 01-2119489287-22 EC: 265-160-8 CAS: 64742-57-0 Index: 649-470-00-4	≥10 - ≤25	Not classified.	-	[2]
Lithium 12-hydroxystearate	EC: 231-536-5 CAS: 7620-77-1	≥10 - ≤25	Not classified.	-	[2]
Dilithium azelate (Nonanedioic acid dilithium salt)	REACH #: 01-2120119814-57 EC: 254-184-4 CAS: 38900-29-7	≤5	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1] [2]
bismuth(3+) neodecanoate	REACH #: 01-2120781945-38 EC: 251-964-6 CAS: 34364-26-6	≤3	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]
Graphite	REACH #: 01-2119486977-12 EC: 231-955-3 CAS: 7782-42-5	≤3	Not classified.	-	[2]
Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide	REACH #: 01-2120792779-28 EC: 948-020-7 CAS: -	≤0.3	Acute Tox. 4, H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 4, H413	ATE [Inhalation (vapours)] = 11 mg/l	[1]

See Section 16 for the full text of the H statements declared above.

Type

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health effects

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Eye contact No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.
Note: High Pressure Applications
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture No specific fire or explosion hazard.

Hazardous combustion products Combustion products may include the following:
carbon oxides (CO, CO_2) (carbon monoxide, carbon dioxide)
metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilt material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 5 for firefighting measures.
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers.

Not suitable

Prolonged exposure to elevated temperature

7.3 Specific end use(s)

Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**Work environment authority Regulation 2018:1 (Sweden). [mineralolja, gammal använd] Absorbed through skin.** **Work environment authority Regulation 2018:1 (Sweden). [oil mist, incl. oil fumes]** TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/2018 Form: mist and fume STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: mist and fume
Distillates (petroleum), hydrotreated heavy paraffinic	**Work environment authority Regulation 2018:1 (Sweden). [mineralolja, gammal använd] Absorbed through skin.** **Work environment authority Regulation 2018:1 (Sweden). [oil mist, incl. oil fumes]** TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/2018 Form: mist and fume STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: mist and fume

SECTION 8: Exposure controls/personal protection

Residual oils (petroleum), solvent-dewaxed	**Work environment authority Regulation 2018:1 (Sweden). [mineralolja, gammal använd] Absorbed through skin.** **Work environment authority Regulation 2018:1 (Sweden). [oil mist, incl. oil fumes]** TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/2018 Form: mist and fume STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: mist and fume
Residual oils (petroleum), hydrotreated	**Work environment authority Regulation 2018:1 (Sweden). [mineralolja, gammal använd] Absorbed through skin.** **Work environment authority Regulation 2018:1 (Sweden). [oil mist, incl. oil fumes]** TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/2018 Form: mist and fume STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: mist and fume
Lithium 12-hydroxystearate	**Work environment authority Regulation 2018:1 (Sweden). [lithium and comp.]** STEL: 0.02 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: inhalable fraction
Dilithium azelate (Nonanedioic acid dilithium salt)	**Work environment authority Regulation 2018:1 (Sweden). [lithium and comp.]** STEL: 0.02 mg/m³ 15 minutes. Issued/Revised: 8/2018 Form: inhalable fraction
Graphite	**Work environment authority Regulation 2018:1 (Sweden).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 7/2012 Form: Total dust

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

Derived No Effect Level

Product/ingredient name	Type	Exposure	Value	Population	Effects
Dilithium azelate (Nonanedioic acid dilithium salt)	DNEL	Long term Dermal -	13.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal -	0.172 mg/cm²	Workers	Local

Predicted No Effect Concentration

Product/ingredient name	Compartment Detail	Value	Method Detail
Dilithium azelate (Nonanedioic acid dilithium salt)	Fresh water	0.023 mg/l	Assessment Factors
	Marine water	0.0023 mg/l	Assessment Factors
	Intermittent release	0.23 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures

SECTION 8: Exposure controls/personal protection

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.
The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.
Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.
Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.
If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.
It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.
Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

SECTION 8: Exposure controls/personal protection

Skin and body

Use of protective clothing is good industrial practice.
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Refer to standards:

Respiratory protection: EN 529
Gloves: EN 420, EN 374
Eye protection: EN 166
Filtering half-mask: EN 149
Filtering half-mask with valve: EN 405
Half-mask: EN 140 plus filter
Full-face mask: EN 136 plus filter
Particulate filters: EN 143
Gas/combined filters: EN 14387

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state Grease

Colour Black. [Dark]

Odour Not available.

Odour threshold Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flammability Not available.

Lower and upper explosion limit Not applicable.

Flash point Closed cup: 262°C (503.6°F) [Estimated. Based on Lubricants - Base Oils]

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

pH Not applicable.

Kinematic viscosity Not available.

Solubility

Media	Result
water	Not soluble

Partition coefficient n-octanol/water (log value) Not applicable.

Vapour pressure Not available.

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Not available.						

Density and/or Relative density <1000 kg/m³ (<1 g/cm³) at 20°C

Relative vapour density Not applicable.

Particle characteristics

Median particle size Not available.

9.2 Other information

Evaporation rate Not available.

Explosive properties Not available.

SECTION 9: Physical and chemical properties

Oxidising properties Not available.

Drop Point >245 °C

Penetration Number (0.1 mm) 265 to 295 at 25°C

SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

10.6 Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result / Route	Test authority / Number	Species	Dose	Exposure	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	LD50 Dermal	OECD 402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD 401	Rat	>300 mg/kg	-	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Molub-Alloy 860/220-2 ES	8187.4	N/A	N/A	N/A	N/A
Dilithium azelate (Nonanedioic acid dilithium salt)	500	N/A	N/A	N/A	N/A
bismuth(3+) neodecanoate	500	N/A	N/A	N/A	N/A
2,5-bis(octyldithio)-1,3,4-thiadiazole	N/A	N/A	N/A	11	N/A

Irritation/Corrosion

Product/ingredient name	Test authority / Test number	Species	Route / Result	Test concentration	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 405	Rabbit	Eyes - Not irritant	-	-
	OECD 439	RhE	Skin - Not irritant	-	-

Sensitiser

Product/ingredient name	Route	Test authority / Test number	Species	Result	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	skin	OECD 429	Mouse	Not sensitising	-

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SECTION 11: Toxicological information

Product/ingredient name	Test authority / Test number	Cell	Type	Result	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 471	-	Experiment: In vitro Subject: Bacteria	Negative	-
	OECD 473	-	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on studies with similar substances.
	OECD 476	-	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on studies with similar substances.

Reproductive toxicity

Product/ingredient name	Test authority / Test number	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 422	Rat	Dermal	-	Negative	Negative	Negative	-

Information on likely routes of exposure Routes of entry anticipated: Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Eye contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Ingestion No specific data.

Skin contact Adverse symptoms may include the following:
irritation
dryness
cracking

Eye contact No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Remarks -Endocrine disrupting properties for human health Conclusion/ Summary Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Test authority / Test number		Species	Type / Result	Exposure	Effects	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD	202	Daphnia	Acute EC50 >100 mg/l	48 hours	-	-
	OECD	203	Fish	Acute EC50 >100 mg/l	96 hours	-	-
	OECD	201	Algae	Acute ErC50 23 mg/l	72 hours	-	Based on studies with similar substances.
	OECD	201	Algae	Chronic NOEC 3.2 mg/l	72 hours	-	Based on studies with similar substances.

Environmental hazards Not classified as dangerous

12.2 Persistence and degradability

Expected to be biodegradable.

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 301B	91 % - Readily - 28 days	-

12.3 Bioaccumulative potential

Not available.

Product/ingredient name	$LogP_{ow}$	BCF	Potential
dilithium azelate	-3.3	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) Not available.

Mobility Grease .insoluble in water.

12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting properties Not available.

Remarks - Endocrine disrupting properties for environment Conclusion/ Summary Not available.

12.7 Other adverse effects No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Hazardous waste Yes.

European waste catalogue (EWC)

Waste code	Waste designation
12 01 12*	spent waxes and fats

SECTION 13: Disposal considerations

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods of disposal The regulations regarding manufacturers' responsibility for packaging material waste is regulated in "Förordningen om producentansvar för förpackningar". Packaging materials are to be reused or recycled in accordance with the goals outlined in this regulation. The company complies with this manufacturer's responsibility through its association with REPA, which is a subsidiary company of four materials handling companies. The materials handling companies collect, remove and process used and sorted packaging materials through the employment of contractors. Questions regarding collection of packaging materials on a local basis may be directed to the materials company and its contractors. For further information, contact REPA, www.repa.se.

Scrape the package well, recover and add the remainders in the process where the product is used, or send for special waste treatment. Send to a certified recycler/receiver.

References Commission 2014/955/EU
Directive 2008/98/EC

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user Not available.

14.7 Maritime transport in bulk according to IMO instruments Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Labelling	Not applicable.

Other regulations

REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
United States inventory (TSCA 8b)	All components are active or exempted.
Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (CSCL)	At least one component is not listed.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
Explosive precursors	Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment	A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic

SECTION 16: Other information

PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SADT = Self-Accelerating Decomposition Temperature
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1

History

Date of issue/ Date of revision 22/04/2024.

Date of previous issue 30/08/2023.

Prepared by Product Stewardship

Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

SAFETY DATA SHEET

MOBIL SHC 630

ExxonMobil

Section 1. Identification

Product name : MOBIL SHC 630

Product description : synthetic base stocks and additives

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Circulating/gear oil

Uses advised against : This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

Supplier : EXXON MOBIL CORPORATION
22777 Springwoods Village Parkway
Spring, TX 77389 USA

24-Hour emergency telephone number : 1-800-424-9300 / +1 703-741-5970 / +1-703-527-3887 (CHEMTREC)

Product Technical Information : 800-662-4525

SDS Internet Address : www.sds.exxonmobil.com

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

Hazards not otherwise classified : None known.

Note : This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% by weight	Identifiers
1-decene, homopolymer hydrogenated	≥10 - ≤25	CAS: 68037-01-4
kerosene	<1	CAS: 8008-20-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent re-ignition. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Static Accumulator : This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
1-dodecene, polymer with 1-octene, hydrogenated 1-decene, homopolymer hydrogenated 1-dodecene, polymer with 1-decene, hydrogenated 1-decene, homopolymer hydrogenated kerosene	**ExxonMobil (COMPANY)** TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). **ExxonMobil (COMPANY)** TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). **ExxonMobil (COMPANY)** TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). **ExxonMobil (COMPANY)** TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). **NIOSH REL (United States, 10/2020)** TWA 10 hours: 100 mg/m³. **ACGIH TLV (United States, 1/2024) [Kerosene]** Absorbed through skin. TWA 8 hours: 200 mg/m³ (as total hydrocarbon vapor). **ExxonMobil (COMPANY)** Absorbed through skin. TWA 8 hours: 5 mg/m³. Form: Stable Aerosol.. TWA 8 hours: 200 mg/m³. Form: Vapor..

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Section 8. Exposure controls/personal protection

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Orange

Odor : Characteristic

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : >315.56°C (>600°F)

Flash point : Open cup: >210°C (>410°F) [ASTM D-92]

Evaporation rate : Not available.

Flammability : Ignitable

Lower and upper explosion limit/flammability limit : Lower: 0.9%
Upper: 7%

Vapor pressure : <0.1 mm Hg [20 °C]

Relative vapor density : >2 [Air = 1]

Relative density : 0.854

Solubility in water : Negligible

Partition coefficient: n-octanol/water : >3.5

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : 220 cSt [40 °C] [ASTM D 445]

Particle characteristics

Median particle size : Not applicable.

Pour point : -36°C

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : High energy sources of ignition. Excessive heat.

Incompatible materials : Strong oxidizers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary

Inhalation : Minimally Toxic. No end point data for material. Based on assessment of the components.

Dermal : Minimally Toxic. No end point data for material. Based on assessment of the components.

Oral : Minimally Toxic. No end point data for material. Based on assessment of the components.

Irritation/Corrosion

Conclusion/Summary

Skin : Negligible irritation to skin at ambient temperatures. No end point data for material. Based on assessment of the components.

Eyes : May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components.

Respiratory : Negligible hazard at ambient/normal handling temperatures. No end point data for material.

Respiratory or skin sensitization

Conclusion/Summary

Skin : Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.

Respiratory : Not expected to be a respiratory sensitizer. No end point data for material.

Mutagenicity

Conclusion/Summary : Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.

Carcinogenicity

Conclusion/Summary : Not expected to cause cancer. No end point data for material. Based on assessment of the components.

Classification

Product/ingredient name	OSHA	IARC	NTP
kerosene	-	3	-

Reproductive toxicity

Conclusion/Summary : Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.

Specific target organ toxicity (single exposure)

Conclusion/Summary : Not expected to cause organ damage from a single exposure. No end point data for material.

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
MOBIL SHC 630	Not applicable.	-

Conclusion/Summary : Not expected to cause organ damage from prolonged or repeated exposure. No end point data for material. Based on assessment of the components.

Aspiration hazard

Conclusion/Summary : Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. Data available.

Other information

Contains : Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

Toxicity

Product/ingredient name	Duration	Species	Result
MOBIL SHC 630	96 hours 21 days	Fish - *Oncorhynchus mykiss* daphnia - *Daphnia magna*	Acute LL50 1003 mg/l data for similar materials Chronic NOEL 1 mg/l data for similar materials

Conclusion/Summary

Acute toxicity : Not expected to be harmful to aquatic organisms.

Chronic toxicity : Not expected to demonstrate chronic toxicity to aquatic organisms.

Persistence and degradability

Not determined.

Bioaccumulative potential

Not determined.

Mobility in soil

Mobility : Base oil component -- Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land.

Other ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY

Section 13. Disposal considerations

EXPLODE AND CAUSE INJURY OR DEATH.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Label(s) / Marks				
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not applicable.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 4(a) proposed test rules**: 1h-benzotriazole, methyl-

TSCA 5(a)2 proposed significant new use rules: triphenyl phosphate

TSCA 8(a) PAIR: naphthalene; siloxanes and silicones, di-me; octamethylcyclotetrasiloxane; decamethylcyclopentasiloxane; dodecamethylcyclohexasiloxane; diphenylamine

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: naphthalene; toluene; arsenic

Clean Water Act (CWA) 311: naphthalene; toluene

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

Section 15. Regulatory information

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

SARA 313

This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

Illinois : None of the components are listed.

California Prop. 65

⚠ **WARNING**: Cancer - www.P65Warnings.ca.gov.

Inventory list

Australia inventory (AIIC) : All components are listed or exempted.

Canada inventory (DSL-NDSL) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Japan inventory (CSCL) : Not determined.

Japan inventory (Industrial Safety and Health Act) : All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

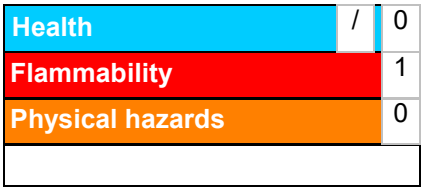
Korea inventory (KECI) : All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted.

United States inventory (TSCA 8b) : All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information

Procedure used to derive the classification

Not classified.

New Jersey Right to Know Disclosure

Name	CAS #
Lubricant	

History

Date of issue/Date of revision : 16 July 2024

Date of previous issue : 8 December 2023

Version : 1.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Product code : 201560500550_1200195

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SAFETY DATA SHEET

Section 1. Identification

Product name LubeCon Series I/M 200 Lubricant

SDS # 461134

Code 461134-US03

Relevant identified uses of the substance or mixture and uses advised against

Product use Chain lubricant.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Supplier LUBECON USA, LLC
201 N Webster St.
White Cloud, MI 49349
Telephone: +1-800-582-3266

EMERGENCY SPILL INFORMATION: +1-800-424-9300 (CHEMTREC USA)
+1-703-527-3887 (CHEMTREC outside the US)

Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms

Signal word Danger

Hazard statements May be fatal if swallowed and enters airways.

Precautionary statements

Prevention Not applicable.

Response IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

Storage Store locked up.

Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Hydrocarbon solvent. Highly refined mineral oil and additives

Ingredient name	CAS number	%
Distillates (petroleum), hydrotreated light	64742-47-8	≥50 - ≤75
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≥10 - ≤25

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects. Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

Specific treatments No specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products Combustion products may include the following:
carbon oxides (CO, CO_2) (carbon monoxide, carbon dioxide)

Special protective actions for fire-fighters No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Fire-fighters' protective clothing will only provide limited protection.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not swallow. Aspiration hazard if swallowed. Can enter lungs and cause damage. Never siphon by mouth. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid prolonged or repeated contact with skin. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid and as a result may induce allergic skin reactions. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Concentrations of mist, fumes and vapors in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light	**ACGIH TLV (United States). Absorbed through skin.** TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. Issued/Revised: 1/2003
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**ACGIH TLV (United States).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.
Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.
The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection

Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Body protection

Use of protective clothing is good industrial practice.
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Wear clothing and footwear that cannot be penetrated by chemicals or oil.
Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended: half-face mask - organic vapor filter (Type A).
The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state Liquid.

Color Gray. [Dark]

Odor Not available.

Odor threshold Not available.

pH Not applicable.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flash point Closed cup: >95°C (>203°F) [Pensky-Martens]

Evaporation rate Not available.

Flammability Not applicable. Based on - Physical state

Lower and upper explosion limit/flammability limit Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20˚C			Vapor pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated light	0.23 to 0.45	0.031 to 0.06				
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191			
diisooctyl adipate	0	0				
Fatty acids, C16-18 and	3.15	0.42	EU A.4			

Section 9. Physical and chemical properties

C18-unsatd., Me esters						

Relative vapor density Not available.

Density <1000 kg/m³ (<1 g/cm³) at 15.6°C

Solubility insoluble in water.

Partition coefficient: n-octanol/water Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
Distillates (petroleum), hydrotreated light	>220	>428	

Decomposition temperature Not available.

Viscosity Kinematic: 5 mm^2/s (5 cSt) at 40°C

VOC 572.8 g/l

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Inhalation Vapor inhalation under ambient conditions is not normally a problem due to low vapor pressure.

Ingestion Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs. Ingestion of large quantities may cause nausea and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

Skin contact No specific data.

Section 11. Toxicological information

Inhalation Exposure to high concentrations can cause dizziness, lightheadedness, headache, nausea and blurred vision. Higher levels may cause unconsciousness.
May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition products occurs.

Ingestion Adverse symptoms may include the following:
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) Not available.

Mobility Liquid. insoluble in water.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user

Not available.

Transport in bulk according to IMO instruments

Not available.

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are active or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

ASPIRATION HAZARD - Category 1
HNOC - Defatting irritant

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

State regulations

Massachusetts

The following components are listed: OIL MIST, MINERAL

New Jersey

None of the components are listed.

Section 15. Regulatory information

Pennsylvania None of the components are listed.

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including 1,4-Dioxane, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Other regulations

Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (CSCL)	Not determined.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	At least one component is not listed.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

Section 16. Other information

National Fire Protection Association (U.S.A.)

History

Date of issue/Date of revision	05/20/2022.
Date of previous issue	02/10/2022.
Prepared by	Product Stewardship
Key to abbreviations	ACGIH = American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS Number = Chemical Abstracts Service Registry Number GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OEL = Occupational Exposure Limit SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average UN = United Nations UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. We shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheet

Product: PICOGUARD 17625 **PICO ID: F001635**

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **PICOGUARD 17625**
General Classification: Water-based corrosion inhibitor **concentrate**

PICO Chemical Corporation
400 E. 16th Street
Chicago Heights, IL 60411
Telephone: 708-757-4910
Fax: 708-757-4940
Website: www.picochemical.com

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification of Mixture - OSHA/HCS Status:
Eye Irritant – Category 2B

Label Elements:

No	Signal Word	Hazard Statement
pictogram	Warning	Causes eye irritation.

Precaution Statements:
Wash face, hands and any exposed skin thoroughly after handling.
Observe good hygiene practices daily.

Response Precaution Statements:
Eye Contact: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.
Skin Contact: If on skin, wash with plenty of soap and water.
Ingestion: If swallowed, rinse mouth. Do NOT induce vomiting.
Inhalation: If exposed or concerned, get medical advice / attention.

SECTION 3 – COMPOSITION / IDENTITY INFORMATION

Chemical	CAS No.	Percent
Alkanolamine	141-43-5	1-5%

The exact composition and percentages of materials present in this product are proprietary trade secrets and are withheld as provided for by OSHA Hazard Communication Rule 29 CFR 1910.1200.

SECTION 4 – FIRST AID MEASURES

Eye Contact:
Immediately flush the eyes with large amounts of water for at least 15 minutes. Remove contact lenses, if worn. If redness or irritation persists, seek medical attention.

Skin Contact:
Thoroughly wash with soap and water. Launder contaminated clothing before reuse.

Ingestion:
Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately.

Inhalation:
Remove the exposed person to fresh air. If breathing is difficult, seek medical attention immediately.

First Aid Notes to Physician:
No additional information is available.

Date Prepared: 18 December 2019
Supersedes Date: 25 January 2018

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point:	None	**LEL:**	Not applicable
Method Used:	Not applicable	**UEL:**	Not applicable
Flammability Classification:	Non-flammable		

Fire & Explosion Hazards:
None expected.

Decomposition Products:
Upon decomposition, this product may emit oxides of carbon and other organic vapors.

Extinguishing Media:
Use dry chemical, foam, carbon dioxide, and/or water fog.

Special Fire-Fighting Procedure:
None.

Unusual Fire-Fighting Procedures:
None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Stop the flow of material, if this can be done without risk. Dike and prevent material from entering drains, sewers, or waterways. Absorb with dry/inert absorbent material, and transfer into recovery drum for disposal. Dispose of in accordance with local, state, and federal regulations

SECTION 7 – HANDLING AND STORAGE

Handling:
Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes. Use with adequate ventilation. Follow all SDS/label precautions. Observe good hygiene practices daily.

Storage:
Keep container closed when not in use. Store in a dry, well-ventilated place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

A. General Product Information
Follow all applicable exposure limits.

B. Component Exposure Limits

Component	CAS No.	Exposure Limits
Alkanolamine	141-43-5	ACGHI: TWA 3 ppm ACGHI: STEL 6 ppm OSHA: PEL 6 mg/m^3

Engineering Controls:
Provide ventilation to maintain exposure below limits.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:
Wear appropriate eye protection to prevent eye contact, when necessary.

Skin Protection:
Wear appropriate personal protective clothing to prevent prolonged or repeated skin contact, when necessary. The worker should practice good personal hygiene daily.

Respiratory Protection:
In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Appearance:**	Clear green
Odor:	Mild	**Vapor Pressure:**	18 mm Hg @ 20°C (68°F)
Vapor Density:	ND (air = 1)	**Boiling Point:**	212°F (100°C)
Weight/Gallon:	8.70 lbs./gal. @ 77°F (25°C)	**pH:**	9.3 (as is)
Viscosity:	ND	**VOC:**	0.064 lbs./gal.
Solubility in Water:	Complete	**Evaporation Rate:**	0.40 (butyl acetate = 1)
Percent Volatile:	ND	**Percent Solids:**	ND

SECTION 10 – STABILITY AND REACTIVITY INFORMATION

Chemical Stability:
Stable under normal conditions.
Conditions to Avoid:
Avoid freezing.
Incompatibility:
Do not expose this product to excessive strong oxidizers.
Decomposition Products:
Upon decomposition, this product may emit oxides of carbon and other organic vapors.
Hazardous Polymerization:
Will not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Acute Toxicity:

A. **General Product Information:**
No information is available for the product.
B. **Component Analysis - LD50/LC50:**
No information is available for the product.

Carcinogenicity

A. **General Product Information:**
No information is available for the product.
B. **Component Carcinogenicity:**
None of this product's components is on IARC or NTP lists.

Other Toxicological Information:
No information is available for the product.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity

A. **General Product Information**
No data is available for this product.
B. **Component Analysis - Ecotoxicity - Aquatic Toxicity**
No data is available for this product.

Environmental Fate:
No data is available for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

U. S. EPA Waste Numbers & Descriptions - General Product Information:

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous wastes.

Component Waste Numbers:

No data is available for this product.

Disposal Instructions:

Dispose of waste material according to local, state, federal, and provincial environmental regulations.

SECTION 14 – TRANSPORTATION INFORMATION

U. S. DOT Information:

Not regulated.

SECTION 15 – REGULATORY INFORMATION

U. S. Federal Regulations

A. General Product Information

No additional information is available.

B. Component Analysis

This material contains no chemicals requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SARA 311/312: **Acute:** Yes **Chronic:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U. S. State Regulations

A. General Product Information

No information is available.

B. Component Analysis - State

No information is available.

Other Regulations

A. General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B. Component Analysis – Inventory

No information is available.

C. Component Analysis – WHMIS IDL

No information is available.

SECTION 16 – OTHER INFORMATION

Date Prepared: 18 December 2019
Supersedes Date: 25 January 2018

NFPA Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Other:**
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
* = Chronic hazard

HMIS Ratings: **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Personal Protection:**
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act
TWA = Time Weighted Average	STEL = Short Term Exposure Limit
TCC = Tag Closed Cup	PMCC = Pensky Martin Closed Cup
TOC = Tag Open Cup	DOT = Department of Transportation
ND = Not Determined	NA or N/A = Not Available
LEL = Lower Explosion Limit	UEL = Upper Explosion Limit

FOR INDUSTRIAL USE ONLY

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SAFETY DATA SHEET

Revision Date 09-01-2019 **Version** 4

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code(s) 21377200-M
Product Name RUST VETO 377 HF

Recommended Use Antirust
Uses advised against Any other purpose.

Manufacturer, Importer, Supplier

Houghton International Inc.
Madison & Van Buren Aves.
Valley Forge, PA 19482
Telephone: 610-666-4000 FAX: 610-666-1376
Website: www.houghtonintl.com
Customer Service: 888-459-9844

Houghton Canada
915 Meyerside Drive
Mississauga
ON
L5T 1R8

Emergency telephone number

United States of America/Canada : 3E Company - 1-866-519-4752 (Code 333938)

SECTION 2: HAZARDS IDENTIFICATION

Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Workplace Hazardous Materials Information System (WHMIS) 2015

Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Signal word
DANGER

Hazard statements
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Combustible liquid

Precautionary Statements

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statements - Response
Specific treatment (see .? on this label)

Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

Fire
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep cool
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Health	Not Applicable.
Physical	Not Applicable.

Other Information
Harmful to aquatic life with long lasting effects
Harmful to aquatic life
Prolonged skin contact may defat the skin and produce dermatitis
Repeated exposure may cause skin dryness or cracking

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients.

Chemical name	CAS No	Weight-%
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	-	60% - 80%
Petrolatum	8009-03-8	10% - 30%
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	1% - 5%
2-(2-Butoxyethoxy)ethanol	112-34-5	1% - 5%
Sulfonic acids, petroleum, sodium salts	68608-26-4	1% - 5%
N-1-naphthylaniline	90-30-2	0.1% - 1%

The exact percentage (concentration) of composition has been withheld as a trade secret.

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

SECTION 4: FIRST AID MEASURES

Description of first-aid measures

General advice Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur. Potential for aspiration if swallowed.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Ingestion If symptoms persist, call a physician. Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed

Main Symptoms May be fatal if swallowed and enters airways

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment:, Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire

Special hazards arising from the substance or mixture

Special Hazard
In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Water runoff can cause environmental damage. Thermal decomposition can lead to release of irritating gases and vapors. This material creates a fire hazard because it floats on water.

Hazardous decomposition products
Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of

ignition.

Advice for non-emergency personnel Eliminate all ignition sources if safe to do so.

Advice for emergency responders For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills. After cleaning, flush away traces with water.

Reference to other sections

See Section 8/12/13 for additional information

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove all sources of ignition.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

Recommended Shelf Life
Shelf life 12 months.

Incompatible materials
Strong oxidizing agents, Strong acids, Strong bases

Specific end uses

Specific use(s) Antirust

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Legend:
(s) - Skin; TWA - Time-Weighted Average; STEL - Short Term Exposure Limit; Ceiling - Ceiling Value; TLV® - Threshold Limit Value; PEL (Permissible Exposure Limit); IDLH (immediately dangerous to life and health); WEEL (Workplace Environmental Exposure Level Guides)

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) -	5 mg/m³ (mist)	5 mg/m³ (mist)		

Petrolatum 8009-03-8	5 mg/m³ (mist)	5 mg/m³ (mist)		
Highly refined base oil (Viscosity >20.5 cSt @40°C) -	5 mg/m³ (mist)	5 mg/m³ (mist)		
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm (inhalable fraction and vapor)			

ACGIH - American Conference of Governmental Industrial Hygienists

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

Chemical name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m³ 143ppm	
Distillates (petroleum), hydrotreated light 64742-47-8	RCP: TWA 1200 mg/m³ 182ppm	
Naphtha (petroleum), hydrotreated heavy 64742-48-9	RCP: TWA 1000 mg/m³	
C12-C14 isoalkanes 68551-19-9	RCP: TWA 1200 mg/m³	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m³	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 600 mg/m³	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m³	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 150ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 171 ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m³	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 165 ppm TWA: 1200 mg/m³	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 1200 mg/m³ 182ppm	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m³	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m³	
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m³	CEFIC-HSPA: 1200 mg/m³

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Hygiene measures	Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	**Appearance**	Dark
Odor	Not Determined	**Odor threshold**	Not Determined

Property	Values	Remarks
pH	Not Determined	
Melting point / freezing point	Not Determined	
Boiling point / boiling range	Not Determined	
Flash point	79 °C / 174 °F	ASTM D 92
Evaporation rate	Not Determined	
Flammability (solid, gas)	Not Determined	
Flammability Limit in Air		
Upper flammability limit:	Not Determined	
Lower flammability limit:	Not Determined	
Vapor pressure	Not Determined	
Vapor density	Not Determined	
Relative density	0.8400	g/cm3 @15°C
Solubility(ies)	Insoluble in water	
Partition coefficient	Not Determined	
Autoignition temperature	Not Determined	
Decomposition temperature	Not Determined	
Kinematic viscosity	6.46 cSt @ 40 °C	
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

Other Information

Viscosity, kinematic (100°C)	Not Determined
Pour Point	Not Determined
VOC Content (ASTM E-1868-10)	574 g/L
VOC content	Not Determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None under normal use conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to avoid

Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information May be harmful if swallowed and enters airways.

Inhalation Risk of serious damage to the lungs (by aspiration)
Eye contact Based on available data, the classification criteria are not met
Skin contact Repeated exposure may cause skin dryness or cracking; Prolonged skin contact may defat the skin and produce dermatitis
Ingestion Risk of product entering the lungs on vomiting after ingestion

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) -	>2000 mg/kg	>2000 mg/kg	
Petrolatum 8009-03-8		= 3600 mg/kg (Rabbit)	
Highly refined base oil (Viscosity >20.5 cSt @40°C) -	>2000 mg/kg	>2000 mg/kg	
2-(2-Butoxyethoxy)ethanol 112-34-5	3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
Sulfonic acids, petroleum, sodium salts 68608-26-4	>6000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	
N-1-naphthylaniline 90-30-2	= 1625 mg/kg (Rat)	>5000 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms May be fatal if swallowed and enters airways. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Prolonged skin contact may defat the skin and produce dermatitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met

Sensitization Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Based on available data, the classification criteria are not met.

Aspiration hazard Risk of serious damage to the lungs (by aspiration).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No special environmental measures are necessary

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50
Sulfonic acids, petroleum, sodium salts	>100: 72 h Desmodesmus subspicatus mg/L EC50		
N-1-naphthylaniline	0.25: 72 h Desmodesmus subspicatus mg/L EC50	0.44: 96 h Oncorhynchus mykiss mg/l LC50	0.32: 48 h Daphnia magna mg/L EC50

Persistence and degradability The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

Bioaccumulation No information available

Mobility The product is insoluble and floats on water. Is not likely mobile in the environment due its low water solubility.

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Observe all label precautions until container is cleaned, reconditioned or destroyed.

SECTION 14: TRANSPORT INFORMATION

DOT

UN/ID no NA1993
Proper shipping name COMBUSTIBLE LIQUID, N.O.S.
Hazard Class Combustible liquid
Packing Group III
Emergency Response Guide Number 128
Description NA1993, COMBUSTIBLE LIQUID, N.O.S. (Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C), COMBUSTIBLE LIQUID, III

Remarks DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2) if they are not a hazardous waste, hazardous substance or marine pollutant"

TDG Not Regulated

IATA Not Regulated

IMDG Not Regulated

SECTION 15: REGULATORY INFORMATION

International Inventories

Inventory information may be utilizing alternative CAS#s or exemptions beyond those stated within this document For further information, please contact: ProductStewardship@houghtonintl.com

TSCA	Complies
DSL	Complies
AICS	Complies
PICCS	Complies
KECL	Complies
IECSC	Complies
ENCS	Does not Comply
TCSI	Complies
NZIoC	Does not Comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
ENCS - Japan Existing and New Chemical Substances
TCSI - Taiwan National Existing Chemical Inventory
NZIoC - New Zealand Inventory of Chemicals

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No	SARA 313 - Threshold Values %
2-(2-Butoxyethoxy)ethanol	112-34-5	1.0
Naphthenic acids, zinc salts	12001-85-3	1.0

SARA 311/312 Hazard Categories
- Flammable (gases, aerosols, liquids, or solids)
- Respiratory or skin sensitization
- Aspiration Hazard

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthenic acids, zinc salts		X		
Aniline	5000 lb			X

CERCLA
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this regulation, Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional,

or state level pertaining to releases of this material.

U.S. State Regulations

SCAQMD Rule 1144
The sale or distribution in the SCAQM District of California for metal working fluids or direct-contact lubricants is allowed if EITHER the VOC of the product itself OR the VOC of the diluted product at the point of use is less than the following limits: (1) 75 g VOC/L for metal forming, metal removal, metal treating; (2) 50 g VOC/L for metal protection, direct-contact lubricant. The VOC of this product as sold is: 574 g/L

California Proposition 65
WARNING: This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Chemical name	CAS No	California Prop. 65
Aniline	62-53-3	Carcinogen
2-naphthylamine	91-59-8	Carcinogen

International Regulations

Ozone-depleting substances (ODS)
Not applicable

Persistent Organic Pollutants
Not applicable

Chemicals Subject to Prior Informed Consent (PIC)
Not applicable

Other Information

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7
Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
Residual oils (petroleum), solvent-refined	64742-01-4
Extracts (petroleum), residual oil solvent	64742-10-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates(petroleum),hydrotreatedheavyparaffinic	64742-54-7
Residual oils (petroleum), hydrotreated	64742-57-0
Lubricating oils (petroleum), hydrotreated spent	64742-58-1
Residual oils (petroleum), solvent-dewaxed	64742-62-7
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1
Lubricating oils	74869-22-0
Paraffin oils	8012-95-1
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9

The highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No

Distillates (petroleum), hydrotreated middle	64742-46-7
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	64742-46-7
Distillates (petroleum), hydrotreated light	64742-47-8
Naphtha (petroleum), hydrotreated heavy	64742-48-9
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
C12-C14 isoalkanes	68551-19-9
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9
Alkanes,C14-16	90622-46-1
Alkanes, C12-26-branched and linear	90622-53-0
Alkanes, C11-15-iso-	90622-58-5
Alkanes, C16-20-iso-	90622-59-6
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, n-alkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C14-C18, n-alkanes, cyclics, aromatics (2-30%)	NOT AVAILABLE
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

STOT SE - Specific target organ systemic toxicity (Single exposure)
STOT RE - Specific target organ systemic toxicity (repeated exposure)
VOC - Volatile organic compounds
NIOSH IDLH: Immediately Dangerous to Life or Health

Revision Date 09-01-2019

Revision Note Company Logo

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006 (REACH), Appendix II

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	Spray Paint Basecoat
Registration number	-
Synonyms	None.
SDS number	7628
Product code	Ford Internal Ref.: 125446
Issue date	17-September-2014
Version number	2.1
Revision date	18-March-2015
Supersedes date	17-September-2014
Product use	public use

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Coating.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company name	Ford Motor Company Ltd.
Address	Parts Distribution Centre Royal Oak Way South NN11 8NT Daventry, Northants United Kingdom
Telephone number	+44 1327 305 198
Address	Ford-Werke GmbH Edsel-Ford-Str. 2-14 50769 Köln Germany
Telephone number	+49 221 90-33333
E-mail	HSE@rle.de
1.4 Emergency telephone number	+49 (0) 6132-84463 (GBK GmbH – 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification F+;R12, R18, Xi;R36, R43-66-67, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards		
Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
Health hazards		
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Acetone, Butan-1-ol, Butyl Glycollate, Dipentene, Formaldehyde, n-Butyl acetate

Hazard pictograms

Signal word Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurised container: Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.

Response

P101	If medical advice is needed, have product container or label at hand.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.

Storage

P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501	Dispose of contents/container to an approved waste disposal plant

Supplemental label information EUH066 - Repeated exposure may cause skin dryness or cracking.
EUH018 - In use, may form flammable/explosive vapour-air mixture.

2.3. Other hazards The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Butane	20 - < 30	106-97-8 203-448-7	-	601-004-00-0	Note U, Note C
Classification: **DSD:** F+;R12, R18					
CLP: Flam. Gas 1;H220, Press. Gas;H280					
Acetone	10 - < 20	67-64-1 200-662-2	01-2119471330-49-XXXX	606-001-00-8	#
Classification: **DSD:** F;R11, Xi;R36, R66-67					
CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336					
n-Butyl acetate	10 - < 20	123-86-4 204-658-1	01-2119485493-29-XXXX	607-025-00-1	
Classification: **DSD:** R10, R66-67					
CLP: Flam. Liq. 3;H226, STOT SE 3;H336					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Propane	10 - < 20	74-98-6 200-827-9	-	601-003-00-5	Note U
Classification:	**DSD:**	F+;R12, R18			
	CLP:	Flam. Gas 1;H220, Press. Gas;H280			
1-ethoxypropan-2-ol	3 - < 5	1569-02-4 216-374-5	-	603-177-00-8	
Classification:	**DSD:**	R10, R67			
	CLP:	Flam. Liq. 3;H226, STOT SE 3;H336			
Butan-1-ol	1 - < 5	71-36-3 200-751-6	01-2119484630-38-XXXX	603-004-00-6	
Classification:	**DSD:**	R10, Xn;R22, Xi;R37/38-41, R67			
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336			
2-Butoxyethyl acetate	1 - < 3	112-07-2 203-933-3	-	607-038-00-2	#
Classification:	**DSD:**	Xn;R20/21			
	CLP:	Acute Tox. 4;H312, Acute Tox. 4;H332			
2-Methoxy-1-methylethyl acetate	1 - < 3	108-65-6 203-603-9	01-2119475791-29-XXXX	607-195-00-7	#
Classification:	**DSD:**	R10			
	CLP:	Flam. Liq. 3;H226			
3-Butoxypropan-2-ol	1 - < 3	5131-66-8 225-878-4	-	603-052-00-8	
Classification:	**DSD:**	Xi;R36/38			
	CLP:	Skin Irrit. 2;H315, Eye Irrit. 2;H319			
Butyl Glycollate	1 - < 3	7397-62-8 230-991-7	-	-	
Classification:	**DSD:**	Xi;R41			
	CLP:	Eye Dam. 1;H318			
Dipentene	1 - < 3	138-86-3 205-341-0	-	601-029-00-7	Note C
Classification:	**DSD:**	R10, Xi;R38, R43, N;R50/53			
	CLP:	Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410			
Naphtha (petroleum), hydrotreated heavy	1 - < 3	64742-48-9 265-150-3	-	649-327-00-6	Note P
Classification:	**DSD:**	R10, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Xn;R65, R66			
	CLP:	Flam. Liq. 3;H226, Asp. Tox. 1;H304, Muta. 1B;H340, Carc. 1B;H350			

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Xylene	1 - < 3	1330-20-7 215-535-7	-	601-022-00-9	#, Note C, Xn; R20/21 ; C ≥ 12,5 %
Classification:	**DSD:**	R10, Xn;R20/21, Xi;R38			
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
Naphtha (petroleum), hydrodesulphurised heavy	0.1 - < 1	64742-82-1 265-185-4	-	649-330-00-2	Note P
Classification:	**DSD:**	R10, Xn;R65, R66-67, N;R51/53			
	CLP:	Flam. Liq. 3;H226, Asp. Tox. 1;H304, Muta. 1B;H340, Carc. 1B;H350, STOT RE 1;H372, Aquatic Chronic 2;H411			
C.I. Solvent Black 29	0.1 - < 0.2	117527-94-3 403-720-7	-	611-044-00-0	
Classification:	**DSD:**	N;R51/53			
	CLP:	Aquatic Chronic 2;H411			

List of abbreviations and symbols that may be used above:
CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
#: This substance has been assigned Community workplace exposure limit(s).
Note: Regulation No. 1272/2008 - Annex VI

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed May cause drowsiness and dizziness. Headache. Nausea, vomiting. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. This product is miscible in water. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike far ahead of spill for later disposal. Scoop up used absorbent into drums or other appropriate container. Prevent product from entering drains. Following product recovery, flush area with water.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Refrigeration recommended. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	367 mg/m3
		50 ppm
	TWA	147 mg/m3
		20 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	548 mg/m3
		100 ppm
	TWA	274 mg/m3
		50 ppm
Acetone (CAS 67-64-1)	STEL	3620 mg/m3
		1500 ppm
	TWA	1210 mg/m3

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
		500 ppm
Butan-1-ol (CAS 71-36-3)	STEL	154 mg/m3
		50 ppm
Butane (CAS 106-97-8)	STEL	1810 mg/m3
		750 ppm
	TWA	1450 mg/m3
		600 ppm
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3
		200 ppm
	TWA	724 mg/m3
		150 ppm
Xylene (CAS 1330-20-7)	STEL	441 mg/m3
		100 ppm
	TWA	220 mg/m3
		50 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
		20 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components		Type	Route	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		Consumer	Dermal	54.8 mg/kg/BW/day	
Comments:	Long term exposure systemic effects				
			Inhalation	33 mg/m3	
Comments:	Long term exposure systemic effects				
			Oral	1.67 mg/kg/BW/day	
Comments:	Long term exposure systemic effects				
		Professional	Dermal	153.5 mg/kg/BW/day	
Comments:	Long term exposure systemic effects				

Components	Type	Route	Value	Form
		Inhalation	275 mg/m3	
Comments:	Long term exposure systemic effects			
Acetone (CAS 67-64-1)	Consumer	Dermal	62 mg/kg/BW	
Comments:	Long term exposure systemic effects			
		Inhalation	200 mg/m3	
Comments:	Long term exposure systemic effects			
		Oral	62 mg/kg/BW/day	
Comments:	Long term exposure systemic effects			
	Professional	Dermal	186 mg/kg/BW/day	
Comments:	Long term exposure systemic effects			
		Inhalation	2420 mg/m3	
Comments:	Short term exposure - local effects			
		Inhalation	1210 mg/m3	
Comments:	Long term exposure systemic effects			
Butan-1-ol (CAS 71-36-3)	Consumer	Inhalation	55 mg/m3	
Comments:	Long term exposure - local effects			
		Oral	3.125 mg/kg/BW/day	
Comments:	Long term exposure systemic effects			
	Professional	Inhalation	310 mg/m3	
Comments:	Long term exposure - local effects			
n-Butyl acetate (CAS 123-86-4)	Consumer	Inhalation	859.7 mg/m3	
Comments:	Short term exposure - systemic effects			
		Inhalation	859.7 mg/m3	
Comments:	Short term exposure - local effects			
		Inhalation	102.34 mg/m3	
Comments:	Long term exposure systemic effects			
		Inhalation	102.34 mg/m3	
Comments:	Long term Local effects			
	Professional	Inhalation	960 mg/m3	
Comments:	Short term exposure - systemic effects			
		Inhalation	960 mg/m3	
Comments:	Short term exposure - local effects			
		Inhalation	480 mg/m3	
Comments:	Long term Local effects			
		Inhalation	480 mg/m3	
Comments:	Long term exposure systemic effects			

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Not applicable	Sediment	3.29 mg/kg	
Comments:	Fresh water			
		Sediment	0.329 mg/kg	
Comments:	Seawater			
		Soil	0.29 mg/kg	
		STP	100 mg/l	
		Water	6.35 mg/l	
Comments:	Intermittent release			
		Water	0.635 mg/l	
Comments:	Fresh water			
		Water	0.0635 mg/l	
Comments:	Seawater			
Acetone (CAS 67-64-1)	Not applicable	Sediment	30.4 mg/kg	
Comments:	Fresh water			
		Sediment	3.04 mg/kg	
Comments:	Seawater			
		Soil	29.5 mg/kg	
		STP	100 mg/l	

Components		Type	Route	Value	Form
			Water	21 mg/l	
Comments:	Intermittent release				
			Water	10.6 mg/l	
Comments:	Fresh water				
			Water	1.06 mg/l	
Comments:	Seawater				
Butan-1-ol (CAS 71-36-3)		Not applicable	Freshwater	0.082 mg/l	
			Seawater	0.0082 mg/l	
			Sediment	0.178 mg/kg	
Comments:	Freshwater				
			Sediment	0.0178 mg/kg	
Comments:	Seawater				
			Soil	0.015 mg/kg	
			STP	2476 mg/l	
			Water	2.25 mg/l	
Comments:	Intermittent release				
n-Butyl acetate (CAS 123-86-4)		Not applicable	Freshwater	0.18 mg/l	
			Seawater	0.018 mg/l	
			Sediment	0.981 mg/kg	
Comments:	Freshwater				
			Sediment	0.0981 mg/kg	
Comments:	Seawater				
			Soil	0.0903 mg/kg	
			STP	35.6 mg/l	
			Water	0.36 mg/l	
Comments:	Intermittent release				

Exposure guidelines

UK EH40 WEL: Skin designation

2-Butoxyethyl acetate (CAS 112-07-2)	Can be absorbed through the skin.
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
Butan-1-ol (CAS 71-36-3)	Can be absorbed through the skin.
Xylene (CAS 1330-20-7)	Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

- Hand protection	Butylkautschuk Glove thickness 0.7 mm. Break through time 60 - 119 min. Glove recommendation: Butoject® 898 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. Hand protection in case of splash contact: Butylkautschuk Glove thickness 0.7 mm. Break through time 60 - 119 min. Glove recommendation: Butoject® 898 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove.
- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Aerosol.
Form	Aerosol
Colour	Various.
Odour	Characteristic
Odour threshold	Not available.
pH	Not available.
Ignition temperature	365 °C (689 °F)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not applicable, since aerosol
Flash point	< 0 °C (< 32.0 °F) without propellant
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	1.2 %
Explosive limit – upper (%)	13 %
Vapour pressure	3600 hPa @ 20°C
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Slightly soluble
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity	Not available.
Explosive properties	In use, may form flammable/explosive vapour-air mixture.
Oxidizing properties	Not available.

9.2. Other information

Density	0.75 g/cm3 @ 20°C
VOC (EU)	725 g/l
VOC (CH)	85 - 95 %

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong acids. Strong oxidising agents. Nitrates. Halogens. Fluorine. Chlorine.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis.

11.1. Information on toxicological effects

Acute toxicity	Narcotic effects. May cause an allergic skin reaction.

Product	Species	Test results
Spray Paint Basecoat		
Acute		
Dermal		
		> 2000 mg/kg (calcd. ATE)
Inhalation		
Mist		
		> 5 mg/l/4h (calcd. ATE)
Oral		
		> 5000 mg/kg (calcd. ATE)

Components	Species	Test results
2-Butoxyethyl acetate (CAS 112-07-2)		
Acute		
Dermal		
		1100 mg/kg (acc. CLP 3.1.2)
Inhalation		
Mist		
		1.5 mg/l/4h (acc. CLP 3.1.2)
Butan-1-ol (CAS 71-36-3)		
Acute		
Oral		
		500 mg/kg (acc. CLP 3.1.2)

Components	Species	Test results
Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Xylene (CAS 1330-20-7)		
Acute		
Dermal		
		1100 mg/kg (acc. CLP 3.1.2)
Inhalation		
Mist		
		1.5 mg/l, 4 Hours (acc. CLP 3.1.2)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitisation Based on available data, the classification criteria are not met.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.
CAS 64742-48-9: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as mutagen
CAS 64742-82-1: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as mutagen

Carcinogenicity Based on available data, the classification criteria are not met.
CAS 64742-48-9: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as carcinogen
CAS 64742-82-1: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as carcinogen

IARC Monographs. Overall Evaluation of Carcinogenicity

Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance information No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test results
Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)			
	EL50	Selenastrum capricornutum (new name Pseudokirchnerella subca	3.1 mg/l, 72 hours
Aquatic			
Crustacea	EL50	Daphnia magna	4.5 mg/l, 48 hours
Fish	LL50	Pimephales promelas	8.2 mg/l, 96 hours

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol /water (log Kow)

Naphtha (petroleum), hydrodesulphurised heavy	3.16 - 7.15

Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 08 01 11 15 01 10
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS, flammable
14.3. Transport hazard class(es)	
Class	2
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	190, 327, 344, 625
Classification code	5F

IATA

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
14.4. Packing group	Not applicable.
Packaging instructions	203
Packaging instructions cargo only	203
14.5. Environmental hazards	No.
ERG Code	10L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

Maximum net quantity packaging - Passenger and cargo aircraft	75 kg
Maximum net quantity packaging cargo only	150 kg
Maximum net quantity packaging - Limited quantity	30.00 kg
Special provisions	A145,A167,A802

IMDG

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS
14.3. Transport hazard class(es)	
Class	2
Subsidiary risk	-
14.4. Packing group	Not applicable.
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	63,190,277,327,344,959
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Not applicable.

Restrictions on use

Not applicable.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Other EU regulations

Directive 94/33/EC on the protection of young people at work, as amended

Dipentene (CAS 138-86-3)
Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

1-ethoxypropan-2-ol (CAS 1569-02-4)
2-Butoxyethyl acetate (CAS 112-07-2)
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)
3-Butoxypropan-2-ol (CAS 5131-66-8)
Acetone (CAS 67-64-1)
Butan-1-ol (CAS 71-36-3)
Dipentene (CAS 138-86-3)
Naphtha (petroleum), hydrodesulphurised heavy (CAS 64742-82-1)
Xylene (CAS 1330-20-7)

EU Directive 96/82/EC - Control of Major Accident Hazards: Threshold quantities established for the application of Articles 6 and 7

Category: 8

VOC (EU): 725 g/l

National regulations	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

AC: Article category.
acc., acc.to: according, according to.
ACGIH: American Conference of Governmental Industrial Hygienists.
AFNOR: French Institute for Standards (Association Française de Normalisation).
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route).
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
AICS: Australian Inventory of Chemical Substances.
ANSI: American National Standards Institute.
AOEL: Acceptable Operator Exposure Level.
AOX: adsorbable organic halogen compounds.
approx.: approximately.
ASTM: ASTM International.
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
BAM: Federal Institute for Materials Research and Testing, Germany (Bundesanstalt für Materialforschung und -prüfung).
Maximum permissible concentration of biological working substances (BAT: Biologische Arbeitsstofftoleranzwerte).
BAuA: Federal Institute for Occupational Health and Safety, Germany (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin).
BCF: Bio-concentration factor.
BET: Brunauer-Emmett-Teller.
BLV: Biological Limit Value.
BLV: Biological Limit Value (BGW: Biologischer Grenzwert, Austria).
BMGV: Biological Monitoring Guidance Value (EH40,UK).
BSI: British Standards Institution.
BS: British Standard.
BOD5: Biochemical oxygen demand within 5 days.
BOD: Biochemical oxygen demand.
bw: Body weight.
calcd.: calculated.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
CESIO: European Committee on Organic Surfactants and their Intermediates (Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques).
ChemRRV: Ordinance on the risk reduction related to chemical products (ChemRRV: Chemikalien-Risikoreduktions-verordnung, Switzerland).
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction.
CNS: Central Nervous System.
CNT: Carbon nanotubes.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DETEC: Swiss Federal Department of the Environment, Transport, Energy and Communications.
DIN: German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
DOC: Dissolved organic carbon.
DPD: Directive 1999-45-EC / Dangerous Preparations Directive.
DSD: Directive 67/548-EC / Dangerous Substances Directive.
DSL: Canada, Domestic Substances List.
DU: Downstream User.
dw: dry weight.
e.g.: For example, for instance.
EBW: Exposure Based Waiving.
EC: European Community.

EC50: Effective Concentration 50%.
ECHA: European Chemical Agency.
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European norm.
ENCS: Japan, Inventory of Existing and New Chemical Substances.
EPA: United States Environmental Protection Agency.
ERC: Environmental release category.
ES: Exposure scenario.
EUSES: European Union System for the Evaluation of Substances.
EWC/EWL: European Waste Catalogue.
GCL: General concentration limit.
gen.: general.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
GLP: Good Laboratory Practice.
GW/VL: Occupational exposure limit value.
GW-kw: Occupational exposure limit value - short term.
GW-M/VL-M: Occupational exposure limit value – "Ceiling".
GWP: Global Warming Potential.
HPV: High Production Volume Chemicals.
HEPA: High Efficiency Particulate Air.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IBC Code: International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO: International Civil Aviation Organization.
IC50: Inhibition Concentration 50%.
IECSC: Inventory of Existing Chemical Substances in China.
IMDG Code: International Maritime Dangerous Goods Code.
IMO: International Maritime Organization.
incl.: including, inclusive.
ISO: International Standards Organization.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union for Pure Applied Chemistry.
KECI: Korea Existing Chemicals Inventory.
LCA: Life Cycle Assessment.
LC: Lethal Concentration.
LC50: Lethal Concentration 50%.
LCLo: Lowest published lethal concentration.
LD50: Lethal Dose 50%.
LEV: Local exhaust ventilation.
LOAEL: Lowest observed adverse effect level.
LOEC: Lowest observable effect concentration.
LOEL: Lowest observable effect level.
LPV: Low Production Volume Chemicals.
LQ: Limited Quantities.
Air Quality Control Regulation (LRV: Luftreinhalteverordnung, Switzerland).
TLV-STEL: Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value (TRK-Kzw = Technische Richtkonzentration - Kurzzeitwert).
Maximum allowable workplace concentration – instantaneous value (MAK-Mow: Maximale Arbeitsplatzkonzentration – Momentanwert, Austria)
Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value (MAK-Tmw, TRK-Tmw : Maximale Arbeitsplatzkonzentration - Tagesmittelwert / TRK-Tmw = Technische Richtkonzentration – Tagesmittelwert, Austria).
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
MARPOL: International Convention for the Prevention of Pollution From Ships.
MTD: Maximum tolerated dose.
MWCNT: Multi-walled carbon nanotubes.
n.a.: not applicable.
N/A: Not available.
n.d.: not determined.
NLP: No Longer Polymers.
NDSL: Canada, Non-Domestic Substances List.
NF: French Norm (See AFNOR).
NFPA: National Fire Protection Association.
NIOSH: National Institute for Occupational Safety & Health.
NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No observed adverse effect level.
NOEC: No observed effect concentration.
NOEL: No observed effect level.
NTP: National Toxicology Program.
NZIoC: New Zealand Inventory of Chemicals.
ODP: Ozone Depletion Potential.
OECD: Organization for Economic Cooperation and Development.
OEL: Occupational Exposure Limit.
org.: organic.
OSHA: Occupational Safety & Health Administration.
PAH: Polycyclic Aromatic Hydrocarbons.
PBT: Persistent, bioaccumulative, toxic.
PC: Product category.
PE: Polyethylene.
PEC: Predicted Environmental Concentration.
PEL: Permissible Exposure Limit.
PIC: Prior Informed Consent.
PICCS: Philippines Inventory of Commercial Chemical Substances.
PNEC: Predicted No Effect Concentration.
POCP: Photochemical ozone creation potential (Photochemisches Ozonbildungspotenzial).
POP: Persistent Organic Pollutant.
PPORD: Product and Process Oriented Research and Development.
PPE: Personal Protective Equipment.
PROC: Process category.
RA: Risk Assessment.
RAR: Risk Assessment Report.
RCRA: Resource Conservation Recovery Act.
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
RMM: Risk Management Measure.
RTECS: Registry of Toxic Effects of Chemical Substances.
QSAR: Quantitative Structure Activity Relation.
SARA: Superfund Amendments and Reauthorization Act.
SADT: Self-Accelerating Decomposition Temperature.
SCL: Specific concentration limit.
SEA: socio economic analysis.
STEL: Short-term Exposure Limit.
STP: Sewage treatment plant.
SU: Sector of use.
SVHC: Substance of Very High Concern.
SWCNT: single-walled carbon nanotubes.
ThOD: Theoretical oxygen demand.
TOC: Total Organic Carbon.
TLV: Threshold Limit Value.
TRA: Targeted Risk Assessment.
TSCA: Toxic Substance Control Act.
TWA: Time Weighted Average.
UC: Use category.
UDS: Use descriptor system.
UEC: Use and exposure categories.
UN: United Nations.
UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods.
UVCB: Unknown or Variable Composition, Complex Reaction Products, and Biological Materials.
Regulation on combustible liquids (VbF: Verordnung über brennbare Flüssigkeiten, Austria).
Regulation of the Austria Minister for Labor and Social Affairs regarding health surveillance at the workplace (VGÜ = Verordnung des Bundesministers für Arbeit und Soziales über die Gesundheitsüberwachung am Arbeitsplatz).
VOC: Volatile organic compounds.
vPvB: very Persistent, very Bioaccumulative.
WEL-TWA: Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).
WEL-STEL: Workplace Exposure Limit-Short term exposure limit (15-minute reference period).
WoE: Weight of evidence.
WHMIS: Workplace Hazardous Materials Information System.
WHO: World Health Organization.
wwt: wet weight.

References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R18 In use, may form flammable/explosive vapour-air mixture. R20/21 Harmful by inhalation and in contact with skin. R22 Harmful if swallowed. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R45 May cause cancer. R46 May cause heritable genetic damage. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63 Possible risk of harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Follow training instructions when handling this material.
Disclaimer	The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Attachment to the Safety Data Sheet

Involved Products:

	Finiscode	Part number	Container Size:
1.	1 777 867	1U7J 19L531 AFKRAA	150 ml
2.	1 777 866	1U7J 19L531 AFPCBG	150 ml
3.	1 777 862	1U7J 19L531 DFKLAJ	150 ml
4.	1 777 863	1U7J 19L531 DFNDAH	150 ml
5.	1 777 572	2U7J 19L531 AFC2AA	150 ml
6.	1 777 574	2U7J 19L531 AFC3AE	150 ml
7.	1 777 575	2U7J 19L531 AFK2AA	150 ml
8.	1 777 576	2U7J 19L531 AFK2AB	150 ml
9.	1 777 577	2U7J 19L531 AFM2AD	150 ml
10.	1 777 578	2U7J 19L531 AFP2AD	150 ml
11.	1 777 579	2U7J 19L531 AFP2AE	150 ml
12.	1 777 580	2U7J 19L531 AFQ2AA	150 ml
13.	1 777 581	2U7J 19L531 DFC2AC	150 ml
14.	1 775 511	3U7J 19L531 AFC3AD	150 ml
15.	1 775 512	3U7J 19L531 AFC3AI	150 ml
16.	1 775 513	3U7J 19L531 AFD2A3	150 ml
17.	1 775 514	3U7J 19L531 AFD3AA	150 ml
18.	1 775 515	3U7J 19L531 AFE3AA	150 ml
19.	1 775 516	3U7J 19L531 AFH3AB	150 ml
20.	1 775 517	3U7J 19L531 AFQ3AF	150 ml
21.	1 775 518	3U7J 19L531 DFB3AA	150 ml
22.	1 775 519	3U7J 19L531 DFC3AC	150 ml
23.	1 775 520	3U7J 19L531 DFR3AB	150 ml
24.	1 775 329	4U7J 19L531 AFA4AE	150 ml
25.	1 775 330	4U7J 19L531 AFC4AB	150 ml
26.	1 775 331	4U7J 19L531 AFC4AD	150 ml
27.	1 775 332	4U7J 19L531 AFD4E2	150 ml
28.	1 775 333	4U7J 19L531 AFQ3AA	150 ml
29.	1 775 334	4U7J 19L531 AFQ4AB	150 ml
30.	1 775 336	4U7J 19L531 AFS4AB	150 ml
31.	1 775 340	4U7J 19L531 DF55FM	150 ml
32.	1 775 337	4U7J 19L531 DFC4AA	150 ml
33.	1 775 237	5U7J 19L531 AF55DV	150 ml
34.	1 775 240	5U7J 19L531 AF55GQ	150 ml
35.	1 775 122	6U7J 19L531 AF53RS	150 ml
36.	1 775 126	6U7J 19L531 AF55CV	150 ml
37.	1 775 128	6U7J 19L531 AF56CU	150 ml
38.	1 775 141	6U7J 19L531 AF56DP	150 ml
39.	1 775 142	6U7J 19L531 AF56DY	150 ml
40.	1 775 143	6U7J 19L531 AF56DZ	150 ml
41.	1 775 144	6U7J 19L531 AF56EQ	150 ml
42.	1 775 145	6U7J 19L531 AF56HT	150 ml
43.	1 775 146	6U7J 19L531 AF56HV	150 ml
44.	1 775 147	6U7J 19L531 AF56PP	150 ml
45.	1 775 148	6U7J 19L531 AF56RQ	150 ml
46.	1 775 149	6U7J 19L531 AF56UN	150 ml
47.	1 775 150	6U7J 19L531 AF56XW	150 ml
48.	1 775 151	6U7J 19L531 DF57VT	150 ml
49.	1 772 120	6U7J 19L531 LF56FS	150 ml
50.	1 774 436	7U7J 19L531 AF56DV	150 ml
51.	1 774 445	7U7J 19L531 AF57GP	150 ml
52.	1 773 337	7U7J 19L531 AF58CN	150 ml
53.	1 775 102	81SX 19L531 DF0PLP	150 ml
54.	1 781 604	87SX 19L531 AFMNAB	150 ml
55.	1 774 299	8U7J 19L531 AF58CK	150 ml
56.	1 774 305	8U7J 19L531 AF58CP	150 ml
57.	1 772 591	8U7J 19L531 AF58CT	150 ml
58.	1 772 592	8U7J 19L531 AF58GG	150 ml
59.	1 774 311	8U7J 19L531 AF58MJ	150 ml
60.	1 772 593	8U7J 19L531 AF58PS	150 ml

Involved Products:

	Finiscode	Part number	Container Size:
61.	1 772 593	8U7J 19L531 AF58PS	150 ml
62.	1 774 316	8U7J 19L531 AF58RT	150 ml
63.	1 772 594	8U7J 19L531 AF58TJ	150 ml
64.	1 774 321	8U7J 19L531 DF58CW	150 ml
65.	1 771 551	8U7J 19L531 LF59VM	150 ml
66.	1 781 487	92SX 19L531 AFEACU	150 ml
67.	1 781 489	92SX 19L531 AFEHAE	150 ml
68.	1 781 490	92SX 19L531 AFKKAA	150 ml
69.	1 781 491	92SX 19L531 AFKKAB	150 ml
70.	1 781 493	92SX 19L531 AFKMAH	150 ml
71.	1 781 495	92SX 19L531 AFYBAE	150 ml
72.	1 781 424	93SX 19L531 AFE5AA	150 ml
73.	1 781 420	93SX 19L531 AFEBAN	150 ml
74.	1 781 423	93SX 19L531 AFEDAF	150 ml
75.	1 781 425	93SX 19L531 AFKMAD	150 ml
76.	1 781 426	93SX 19L531 AFMFAD	150 ml
77.	1 781 427	93SX 19L531 AFMXAA	150 ml
78.	1 781 428	93SX 19L531 AFSFAA	150 ml
79.	1 781 429	93SX 19L531 AFYYD4	150 ml
80.	1 781 431	93SX 19L531 AFZJAI	150 ml
81.	1 781 432	93SX 19L531 AFZJAS	150 ml
82.	1 772 216	93SX 19L531 DFADAF	150 ml
83.	1 779 713	94SX 19L531 AFECAF	150 ml
84.	1 779 842	94SX 19L531 AFKZCH	150 ml
85.	1 779 847	94SX 19L531 AFPCAE	150 ml
86.	1 779 851	94SX 19L531 AFSDAE	150 ml
87.	1 779 419	95SX 19L531 AFGAAN	150 ml
88.	1 779 422	95SX 19L531 AFKBAY	150 ml
89.	1 779 423	95SX 19L531 AFKHAH	150 ml
90.	1 779 425	95SX 19L531 AFKPAF	150 ml
91.	1 779 426	95SX 19L531 AFPCAD	150 ml
92.	1 779 427	95SX 19L531 AFUEAB	150 ml
93.	1 779 428	95SX 19L531 AFYTAF	150 ml
94.	1 779 429	95SX 19L531 AFZDAI	150 ml
95.	1 779 430	95SX 19L531 DFEDAK	150 ml
96.	1 779 431	95SX 19L531 DFEMAI	150 ml
97.	1 779 432	95SX 19L531 DFKZC3	150 ml
98.	1 772 209	95SX 19L531 DFZAAB	150 ml
99.	1 779 433	95SX 19L531 DFZMAL	150 ml
100.	1 779 149	96SX 19L531 AFCMAG	150 ml
101.	1 779 153	96SX 19L531 AFJGAB	150 ml
102.	1 779 154	96SX 19L531 AFMRAF	150 ml
103.	1 779 155	96SX 19L531 AFPCAG	150 ml
104.	1 779 122	97SX 19L531 AFAPAA	150 ml
105.	1 779 124	97SX 19L531 AFGPAH	150 ml
106.	1 779 125	97SX 19L531 AFJAHC	150 ml
107.	1 779 126	97SX 19L531 AFKBA1	150 ml
108.	1 779 127	97SX 19L531 AFKEAD	150 ml
109.	1 779 133	97SX 19L531 AFMSAB	150 ml
110.	1 779 134	97SX 19L531 AFPCAQ	150 ml
111.	1 779 137	97SX 19L531 DFJGAG	150 ml
112.	1 778 486	98SX 19L531 AFBEAB	150 ml
113.	1 778 489	98SX 19L531 AFMUAT	150 ml
114.	1 778 490	98SX 19L531 AFPHAS	150 ml
115.	1 778 495	98SX 19L531 DFKHA3	150 ml
116.	1 772 359	9U7J 19L531 AF58CL	150 ml
117.	1 772 360	9U7J 19L531 AF58CS	150 ml
118.	1 772 361	9U7J 19L531 AF58LT	150 ml
119.	1 772 362	9U7J 19L531 AF58PK	150 ml
120.	1 772 363	9U7J 19L531 AF58TM	150 ml
121.	1 772 365	9U7J 19L531 AF59AZ	150 ml
122.	1 772 367	9U7J 19L531 AF59BW	150 ml
123.	1 772 369	9U7J 19L531 AF59PF	150 ml
124.	1 772 370	9U7J 19L531 AF59QG	150 ml

Involved Products:

	Finiscode	Part number	Container Size:
125.	1 772 370	9U7J 19L531 AF59QG	150 ml
126.	1 772 371	9U7J 19L531 AF59RQ	150 ml
127.	1 772 372	9U7J 19L531 AF59TQ	150 ml
128.	1 772 373	9U7J 19L531 DF58GK	150 ml
129.	1 772 374	9U7J 19L531 DF59SR	150 ml
130.	1 772 375	9U7J 19L531 DF59VG	150 ml
131.	1 771 558	9U7J 19L531 KF59RT	150 ml
132.	1 771 559	9U7J 19L531 LF58NJ	150 ml
133.	1 771 560	9U7J 19L531 LF59GF	150 ml
134.	1 771 668	AU7J 19L531 AF5AK5	150 ml
135.	1 771 669	AU7J 19L531 AF5ASQ	150 ml
136.	1 771 670	AU7J 19L531 AF5AXR	150 ml
137.	1 771 913	AU7J 19L531 DF5AVF	150 ml
138.	1 771 542	AU7J 19L531 LF5AHG	150 ml
139.	1 771 688	BU7J 19L531 AF5BCY	150 ml
140.	1 771 689	BU7J 19L531 AF5BHP	150 ml
141.	1 771 690	BU7J 19L531 AF5BMZ	150 ml
142.	1 771 691	BU7J 19L531 AF5BNX	150 ml
143.	1 771 692	BU7J 19L531 DF5BRQ	150 ml
144.	1 771 549	BU7J 19L531 KF59SS	150 ml
145.	1 771 696	CU7J 19L531 AF5CCV	150 ml
146.	1 771 697	CU7J 19L531 AF5CFS	150 ml
147.	1 771 698	CU7J 19L531 AF5CTS	150 ml
148.	1 782 831	CU7J 19L531 AF5DXQ	150 ml
149.	1 775 101	CU7J 19L531 LF5CER	150 ml
150.	1 800 830	DU7J 19L531 AF5DCS	150 ml
151.	1 810 364	DU7J 19L531 AF5DCW	150 ml
152.	1 810 366	DU7J 19L531 AF5DFF	150 ml
153.	1 771 700	DU7J 19L531 AF5DGF	150 ml
154.	1 782 828	DU7J 19L531 AF5DJS	150 ml
155.	1 782 825	DU7J 19L531 AF5DKF	150 ml
156.	1 782 829	DU7J 19L531 AF5DKT	150 ml
157.	1 800 834	DU7J 19L531 DF0MMP	150 ml
158.	1 782 832	DU7J 19L531 DF5DR4	150 ml
159.	1 800 832	DU7J 19L531 KF5DDS	150 ml
160.	1 838 481	DU7J 19L531 LF59VJ	150 ml
161.	1 800 835	DU7J 19L531 LF5DJP	150 ml
162.	1 838 484	DU7J 19L531 NF	150 ml
163.	1 844 979	EU7J 19L531 AF5ECM	150 ml
164.	1 844 980	EU7J 19L531 AF5ERQ	150 ml
165.	1 857 583	EU7J 19L531 DF5FN5	150 ml
166.	1 857 578	FU7J 19L531 AF58DY	150 ml
167.	1 857 576	FU7J 19L531 AF5APF	150 ml
168.	1 871 107	FU7J 19L531 AF5BDU	150 ml
169.	1 872 817	FU7J 19L531 AF5BMU	150 ml
170.	1 872 818	FU7J 19L531 AF5BTS	150 ml
171.	1 857 574	FU7J 19L531 AF5FD4	150 ml
172.	1 857 577	FU7J 19L531 AF5FH7	150 ml
173.	1 872 819	FU7J 19L531 AF5FJ5	150 ml
174.	1 893 500	FU7J 19L531 AF5FJN	150 ml
175.	1 857 573	FU7J 19L531 AF5FM6	150 ml
176.	1 857 575	FU7J 19L531 AF5FTC	150 ml
177.	1 897 440	FU7J 19L531 AF5FWC	150 ml
178.	1 893 501	FU7J 19L531 AF5FX4	150 ml
179.	1 857 581	FU7J 19L531 DF54ES	150 ml
180.	1 857 580	FU7J 19L531 DF54WF	150 ml
181.	1 872 820	FU7J 19L531 DF5FLV	150 ml
182.	1 857 582	FU7J 19L531 DF5FW2	150 ml
183.	1 857 579	FU7J 19L531 DF5UAW	150 ml
184.	1 872 821	FU7J 19L531 KF5DST	150 ml
185.	1 886 013	FU7J 19L531 PF5FEB	150 ml
186.	1 897 439	GU7J 19L531 AF5DKN	150 ml
187.	1 897 441	GU7J 19L531 AF5G9Z	150 ml
188.	1 778 324	XU7J 19L531 AFARBK	150 ml

Involved Products:

	Finiscode	Part number	Container Size:
189.	1 778 324	XU7J 19L531 AFARBK	150 ml
190.	1 778 326	XU7J 19L531 AFECAJ	150 ml
191.	1 778 328	XU7J 19L531 AFJMAI	150 ml
192.	1 778 331	XU7J 19L531 AFMDDX	150 ml
193.	1 778 332	XU7J 19L531 AFSBAL	150 ml
194.	1 778 333	XU7J 19L531 AFSFAR	150 ml
195.	1 778 334	XU7J 19L531 AFVCAD	150 ml
196.	1 778 335	XU7J 19L531 AFYZB4	150 ml
197.	1 778 336	XU7J 19L531 AFZJAC	150 ml
198.	1 778 337	XU7J 19L531 DFEDAJ	150 ml
199.	1 778 022	YU7J 19L531 AFARA5	150 ml
200.	1 778 024	YU7J 19L531 AFMLAK	150 ml
201.	1 778 026	YU7J 19L531 AFMNAK	150 ml
202.	1 777 151	YU7J 19L531 AFMTAK	150 ml
203.	1 778 031	YU7J 19L531 AFPEBU	150 ml
204.	1 778 033	YU7J 19L531 DFCWAG	150 ml
205.	1 778 035	YU7J 19L531 DFVAAB	150 ml