KOP-FLEX®

Material Safety Data Sheet
KSG Grease

Battenfeld America	MATERIAL SAFETY DATA SHEET KSG GREASE	ADDRESS: 1174 Erie Avenue P. O. Box 728 N. Tonawanda, New York 14210

PRODUCT IDENTIFICATION

Product Name Kop-Flex, Inc. KSG Grease	Case No. 61,036-1A	Emergency Phone Number(s) Business: (716) 822-8410 Other:
Lubricating Grease		5/02
Synonyms		Chemical Family Hydrocarbon

INGREDIENTS

Materials or Components	% W	CAS NUMBER	CARCINOGEN OSHA OR IARC
Polyethylene	6 - 15	9002-88-4	No
*Lubrizol	1 - 3	*	No
*Lubrizol	0.2 - 3	68649-42-3	No
Blue Dye	0 - 0.10	- - - - -	No
Mineral Oil	5 - 15	64742-53-6	No
Mineral Oil	60 - 80	64742-52-5	No
*Lubrizol Corporation			

SHIPPING INFORMATIO

Not Restricted

PHYSICAL PROPERTIES

Boiling Point/Range	Melting Point	Freezing Point	Molecular weight(Calculated)
°C 400	°C 170	°C NA	NA

Specific Gravity (H_2O)	Vapor Pressure (mm HG)	Vapor Density (Air = 1)
°F 0.89 @ / 16 °C	°F NA °C	NA

Solubility in H_20	%Volatiles Volume	Evaporation Rate
Nil	0	Either = 1 NA Water =1 = 1 Butylacetata

Appearance and Odor	Other
Green Semi-Solid	

FIRE AND EXPLOSION DATA

Flash Point	Test Method	Flammable Limits	Autoignition Temperature/Fine Point
°C 440 °F		Lower NA % Upper %	°C 485 °F

EXTINGUISHING MEDIA

- ☐ Water-spray
- ☒ Water-fog
- ☐ Water-stream
- ☒ CO_2
- ☒ Dry chemical
- ☐ Alcohol foam
- ☒ Foam
- ☒ Earth or sand

SPECIAL FIRE FIGHTING PROCEDURES

- ☐ Do not enter Building
- ☐ Allow fire to burn
- ☒ Water may cause frothing
- ☐ Do not use water

UNUSUAL FIRE AND EXPLOSION HAZARDS

- ☐ Dust explosion Hazard
- ☐ Sensitive to shock
- ☐ Contamination
- ☐ Temperature
- ☐ Other (Specify) None

REACITIVITY DATA

STABILITY

- ☒ Stable
- ☐ Unstable

CONDITIONS CONTRIBUTING TO INSTABILITY

- ☐ Thermal decomposition
- ☐ Photo degradation
- ☐ Polymerization
- ☐ Contamination

IMCOMPATIBILITY = AVOID CONTACT WITH

- ☐ Strong Acids
- ☐ Strong Alkalis
- ☒ Strong Oxidizers
- ☐ Other (Specify):

HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (list)
CO & CO_2 IF INCOMPLETE CONBUSTION.

CONDITIONS TO AVOID

- ☐ Heat
- ☒ Open Flames
- ☐ Sparks
- ☐ Ignition sources
- ☐ Other (specify):

SPILL LEAK

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

- ☐ Flush with Water
- ☒ Absorb with sand or inert material
- ☐ Neutralize
- ☒ Sweep or scoop up and remove
- ☐ Keep upwind Evacuate enclosed spaces.
- ☐ Prevent Spread or spill
- ☐ Dispose of Immediately
- ☐ Other (specify)

WASTE DISPOSAL METHOD - *Consult federal, state, or local authorities for proper disposal procedures.*

ALL DISPOSALS MUST COMPLY WITH
FEDERAL, STATE AND LOCAL REGULATIONS.

CONTINUED ON REVERSE SIDE →

the power of EPT™

EMERSON™
Industrial Automation

Before using product, read and follow directions and precautions on product label and bulletins.

TOXICITY INFORMATION

CONDITIONS TO AVOID

Excessive Skin Contact

PRIMARY ROUTES OF ENTRY

☐ INHALATION ☒ SKIN CONTACT ☐ OTHER (Specify)

This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS #	Chemical Name	Percent by Weight
68649-42-3	Zinc Alkyidithiophospate	0 .2 - 3.0

HEALTH HAZARD INFORMATION

NFPA Rating

Health.....0
Flammability.....1
Reactivity.....0
Protective Equipment.....3

NFPA HAZARD RATING CODES
Least.....0 High.....3
Slight.....1 Extreme.....4
Moderate.....2

Effects of Exposure

PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or Ceiling (c))
ACGIH 20 | OSHA 2004 | Others 5mg/m³ For Mineral Oil

IRRITATION ☒ Skin ☐ Severe ☐ Moderate ☒ Mild (Transient)
☒ Eye ☐ Severe ☐ Moderate ☒ Mild (Transient)

CORROSITIVITY ☐ Skin ☐ 4 hrs.(DOT) ☐ 24 hrs (CPSC)
☐ Eye ☐ May cause blindness ☒ Not Corrosive

SENSITIZATION
☐ Skin ☐ Respitory ☒ None

INHALATION EFFECTS
☐ Narcotic effect ☐ Cysnosis ☐ Asphyxiant

LUNG EFFECTS (Specify):
NA

OTHER (Specify):
☐ Repeated contact-skin defatter ☐ Other (Specify) NA

Emergency First Aid

INGESTION
☐ Induce vomiting ☒ DO NOT induce vomiting ☐ Give plenty of water ☒ Get medical attention ☐ Other (Specify):

DERMAL
☒ Flush with soap and water ☐ Get medical attention ☒ Contaminated clothing-remove & launder ☐ Contaminated shoes - destroy ☐ Other (Specify)

EYE CONTACT
☒ Flush with plenty of water for at least 15 minutes ☒ Get medical attention ☐ Other (Specify): Nitrile

INHALATION
☐ Remove to fresh air ☐ If not breathing give artificial respiration ☐ Give oxygen ☐ Get medical attention ☐ Other (Specify): NA

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS - *Always maintain exposure below permissible exposure limits*
☐ Consult an individual hyglenist or environmental health specialist ☐ Local exhaust ☒ Use with adequate ventilation ☐ Check for air contamination and oxygen deficiency
☐ Other (Specify):

EYE
☐ Safety glasses ☐ Face Shield ☐ Goggles

HAND (GLOVE TYPE)
☐ Polyvinyl chloride ☒ Neoprene ☐ Natural rubber ☐ Butyl Rubber ☐ Polyvinyl alcohol ☐ Polyethtlene ☒ Other (Specify):

RESPIRATOR TYPE - *Use only NIOSH / MESA approved equipment*
☐ Self-contained ☐ Supplied air ☐ Can or cartridge gas or vapor ☐ Fiber-dust, fume, mist ☐ Other (Specify): NA

OTHER PROTECTIVE EQUIPMENT
☐ Rubber boots ☐ Apron ☐ Other (specify): None Normally Required

SPECIAL PRECAUTIONS

PRECAUTIONARY NOTES
☒ Wash Thoroughly after handling ☒ Do not get in eyes, or on clothing ☒ Do not breathe dust, vapor, mist, gas ☒ Keep container closed ☒ Keep away from sparks, and open flames ☐ store in tightly closed containers
☐ Do not store near Combustibles ☐ Keep from contact with clothing and other conbustible materials ☐ Empty container may contain hazardous residues ☐ Use explosion proof equipment ☐ Other (Specify):

Other handling and storage conditions
Normal Precautions Common To Good Manufacturing Practices Should Be Followed.

Prepared by	Date	Address	Phone
Steven Renwick	1/04	323 Rte. 209 Huguenot NY 12746	(845) 858-8558

PLEASE NOTE ➜ "The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, R & R Packaging Corp. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use."

The Emerson logo is a trademark and a service mark of Emerson Electric Co.
© Emerson Power Transmission Manufacturing, L. P. or affiliates 2005. All rights reserved.

Printed in U.S.A.