

**Product Name: KELISLIP**

Revision Date: 30 January 2016

## SAFETY DATA SHEET

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### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

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#### PRODUCT

Product Name: KELISLIP  
Product Description: Base Oil and Additives  
Product Code: KKG  
Intended Use: ANCHOR LUBE

#### COMPANY IDENTIFICATION

Manufacturer: MIL-COMM PRODUCTS Co., INC.                      Emergency Phone: 732-416-6730 (Kelken Construction)  
Produced for: Kelken Construction Systems    800-424-9300 (Chemtrec 24 Hr. Emer.)

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### SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

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#### 2.1 Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
ZINC DITHIOPHOSPHATE	68649-42-3	< .5%
TRIS(METHYLPHENYL) PHOSPHATE	1330-78-5	< 4%
CALCIUM SULFONATE	MIXTURE	4%

#### 2.2 Label Elements

##### GHS-US labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

GHS07

Hazard Statements (GHS-US)

Warning

Precautionary Statements (GHS-US)

H-317 – May cause an allergic skin reaction  
P-202 – Do not handle until all safety precautions have been read/understood  
P-280 – Wear eye protection, face protection, protective clothing, protective gloves  
P-302+P-352 – If on skin: Wash with plenty of water  
P-308+P-313 – If exposed or concerned: Get medical advice/attention  
P-501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

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### SECTION 3 HAZARDS IDENTIFICATION

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This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL HEALTH EFFECTS

Excessive exposure may result in eye, skin, or respiratory irritation. Low order of toxicity. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:                      Health: 1                      Flammability: 1                      Reactivity: 0  
HMIS Hazard ID:                      Health: 1                      Flammability: 1                      Reactivity: 0

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.

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**SECTION 4****FIRST AID MEASURES**

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**INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**SKIN CONTACT**

Wash contact areas with soap and water. 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.

**EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

**INGESTION**

First aid is normally not required. Seek medical attention if discomfort occurs.

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**SECTION 5****FIRE FIGHTING MEASURES**

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**EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

**FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Oxides of carbon, Smoke, Fume, Sulfur oxides, Incomplete combustion products

**FLAMMABILITY PROPERTIES**

**Flash Point [Method]:** >200°C (392°F) [ ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: 0.9

UEL: 7.0

**Autoignition Temperature:** N/D

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**SECTION 6****ACCIDENTAL RELEASE MEASURES**

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**NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks.

**SPILL MANAGEMENT**

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Confine the spill immediately with booms. Stop leak if you can do it without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

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.

**ENVIRONMENTAL PRECAUTIONS**

Prevent entry into waterways, sewers, basements or confined areas. Large Spills: Dike far ahead of liquid spill for later recovery and disposal.

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**SECTION 7****HANDLING AND STORAGE**

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**HANDLING**

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is a static accumulator.

**STORAGE**

Do not store in open or unlabelled containers.

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**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Exposure limits/standards for materials that can be formed when handling this product:**

When mists/aerosols can occur, the following are recommended: 5mg/m<sup>3</sup> – ACGIH TLV, 10 mg/m – ACGIH STEL, 5 MG/M<sup>3</sup> – OSHA PEL.

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

8.2 Exposure Controls      Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment      Gloves. Protective goggles, Protective clothing.

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**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

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Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

**GENERAL INFORMATION**

Physical State: Liquid

Color: Yellow

Odor: Sweet

Odor Threshold: N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

Relative Density (at 15 °C ): 0.97

Flash Point [Method]: >200°C (392°F) [ ASTM 0-92]

Flammable Limits (Approximate volume % in air): LEL: N/D

UEL: N/D

Boiling Point / Range: > 316°C (600°F)

Vapor Density (Air = 1): N/D

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20°C

Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

Solubility in Water: Negligible

Viscosity: 109.8 cSt (109.8 mrrnvsec ) at 40 °C | 12 cSt (12 mrrnvsec) at 100°C

Oxidizing Properties: See Sections 3, 15, 16.

**OTHER INFORMATION**

Freezing Point: NID

Melting Point: N/A

Pour Point: -18°C

DMSO Extract (mineral oil only). IP-346: < 3 %wt

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**SECTION 10****STABILITY AND REACTIVITY**

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**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION 11 TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/rn"	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

Oils that are used in gasoline engines may become hazardous and display the following properties: Carcinogenic in animal tests. Caused mutations in vitro. Possible allergen and photoallergen. Contains polycyclic aromatic compounds (PAC) from combustion products of gasoline and/or thermal degradation products.

**Contains:**

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC 2 = NTP SUS	3 = IARC 1 4 = IARC 2A	5 = IARC 2B 6 = OSHA CARC
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**SECTION 12 ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

**MOBILITY**

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

**PERSISTENCE AND DEGRADABILITY****Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

**SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 2610), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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**SECTION 14** **TRANSPORT INFORMATION**

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LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

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**SECTION 15** **REGULATORY INFORMATION**

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OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
ZINC DITHIOPHOSPHATE	68649-42-3	< 2.5%

The Following Ingredients are Cited on the Lists Below:\*

Chemical Name	CAS Number	List Citations
PHOSPHORUS	7723-14-0	1,4
ZINC DITHIOPHOSPHATE	68649-42-3	13,15,17
TRIS(METHYLPYENYL) PHOSPHATE	1330-78-5	1,13,15,17

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA6	13 = IL RTK	18 = PA RTK
4 = OSHAZ	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA4	10 = CA P65 CARC	15 = M1293	

Code key: CARC=Carcinogen; REPRO=Reproductive

\* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

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**SECTION 16** **OTHER INFORMATION**

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Indication of changes	Revision 2.0 New SDS
Revision Date	30/1/2016
Other information	Author: JSCRF
NFPA health hazard	1 - Exposure would cause irritation with only minor residual injury
NFPA fire hazard	1- Must be preheated before ignition can occur
NFPA reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water

HMIS III Rating	
Health	1
Flammability	1
Physical	1
Personal Protection	0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. In preparing technical information, MIL-COMM relies on the consensus of opinion and representations made by industry, government agencies and vendor suppliers. It should not therefore be construed as guaranteeing any specific property of the product.