

SAFETY DATA SHEET.

Issuing date 29-Nov-2017

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Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name LUBEGARD 19025 KOOLER KLEEN TRANS FLUSH -WATER BASE

Recommended use of the chemical and restrictions on use

Product code 19025

Product Type Non-flammable aerosol
Synonyms None

Supplier's details

Recommended Use Transmission line flush.
Uses advised against No information available

Manufacturer
International Lubricants, Inc.
7930 Occidental Ave. South
Seattle, WA 98108

Emergency telephone number

Chemical Emergency Phone Number CHEMTEL: 1-800-255-3924 (UNITED STATES)/813-248-0585

Chemical Name	CAS-No	Weight %*
DIMETHYLETHER	115-10-6	20-30
GLYCOL ETHER PM	107-98-2	1-10

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

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Avoid contact with skin, eyes, and clothing.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. Seek immediate medical attention/advice.
Skin contact	Remove contaminated clothing and shoes. Rinse immediately with plenty of water for 15 minutes and seek medical advice if skin irritation persists.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes eye and respiratory irritation. May cause skin irritation. Harmful and may be fatal if swallowed and enters airways.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, Carbon Dioxide (CO₂), Foam, Dry Powder, Dry Chemical. Cool Tanks/ containers with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.

Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use the product in a manner which minimizes splashes. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures. Use with adequate ventilation to keep the exposure levels below the OELS.

Environmental precautions

Environmental precautions Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for Containment Cover liquid and collect with an inert non-combustible material. Soak up with inert absorbant material. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth, or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

Conditions for safe storage, including any incompatibilities

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

Incompatible products Strong acids, alkali, or oxidizing agents.

Aerosol Level 1

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
DIMETHYLETHER 115-10-6	STEL: 500 PPM TWA: 400PPM	TWX: 400 PPM TWA: 1200 mg/m ³	IDLH: 1900 PPM (10 % LEL)
GLYCOL ETHER PM 107-98-2	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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 Chemical resistant apron. Protective gloves.
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Aerosol	Odor	Mild
Appearance	Clear	Odor Threshold	No information available
Color	Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	9.2	+/- 0.50
Melting/freezing point	No information available	
Boiling point/boiling range		No information available
Flash Point		Not available
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		No information available.
upper flammability limit		
lower flammability limit		
Vapor pressure		No information available
Vapor density		Heavier than air
Specific Gravity	0.919	
Water solubility	Soluble in Water	
Partition coefficient: n-octanol/water		No information available
Autoignition temperature	No information available	
Decomposition temperature		No information available
Viscosity	No information available	
Explosive properties	No information available.	

Other information

VOC Content(%) 28.24

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use. No data available

Chemical stability

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn . Keep in a cool place.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkali , or oxidizing agents.

Hazardous Decomposition Products

Carbon oxides , Hydrocarbons, Fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Likely routes of exposure are eye contact, skin contact, and inhalation.
Inhalation	Avoid inhaling vapors or mists. May cause irritation to respiratory tract. May cause drowsiness and dizziness.
Eye contact	Irritating to eyes.
Skin contact	May be irritating to skin.
Ingestion	Aspiration into the lungs during swallowing may cause serious lung damage which is harmful and may be fatal.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
DIMETHYLETHER 115-10-6	-	-	= 308.5 mg/L (Rat) 4 h
GLYCOL ETHER PM 107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h

Information on toxicological effects

Symptoms Causes eye and respiratory irritation. May cause skin irritation. Harmful and may be fatal if swallowed and enters airways.

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

Skin corrosion/irritation	May be irritating to skin.
Eye damage/irritation	Irritating to eyes.
Irritation	Causes eye and respiratory irritation. May cause skin irritation.
Sensitization	No information available.
Germ Cell Mutagenicity	Not a germ cell mutagen.
Carcinogenicity	There are no carcinogenic chemicals in this product.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
Specific target organ systemic toxicity (single exposure)	May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ systemic toxicity (repeated exposure)	No information available.
Chronic toxicity	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.
Target Organ Effects	Eyes, Skin, Respiratory System.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.
 The following values are calculated based on chapter 3.1 of the GHS document .
 ATEmix (oral) 14316136
 ATEmix (inhalation-gas) 100194 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
GLYCOL ETHER PM 107-98-2	-	20.8 g/L LC50 Pimephales promelas 96h static	-	23300 mg/L EC50 Daphnia magna 48h

Persistence and degradability

Bioaccumulation

Chemical Name	log Pow
DIMETHYLETHER 115-10-6	-0.18
GLYCOL ETHER PM 107-98-2	-0.437

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D
 or
 LIMITED QUANTITY

IATA UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LTD. QTY

IMDG UN1950, AEROSOLS, 2.2,LTD. QTY.

15. REGULATORY INFORMATION

International Inventories

**19025 - LUBEGARD 19025 KOOLER KLEEN TRANS
FLUSH -WATER BASE**

Revision Date 29-Nov-2017

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
DIMETHYLETHER	X	X	X	X	X	X	X	X
GLYCOL ETHER PM	X	X	X	X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 CHINA - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Star Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

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).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the 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

California Proposition 65

This product does not contain a chemical(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIMETHYLETHER 115-10-6	X	X	X
GLYCOL ETHER PM 107-98-2	X	X	X

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Hazard Class
A Compressed gases
D2B Toxic materials

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 2	Flammability 2	Instability 0	Physical and chemical hazards - Personal protection B
<u>HMIS</u>	Health Hazard 2	Flammability 2	Physical Hazard 0	

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Revision Note

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet