



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs in accordance with the requirements of the OSHA Hazard Communication Standard in order to assist our customers in their compliance efforts. We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Compliance Services

Zep Inc.

Issue Date 22-Dec-2015

Revision Date 22-Dec-2015

Version 1

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

Product identifier

Product Name Kia Anti-Squeak Lubricant

Other means of identification

Product code: 320551

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA, LP
32 Industrial Drive
Londonderry, NH 03053
Phone: (603) 647-4104
Fax: (603) 647-4106

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Label Elements

EMERGENCY OVERVIEW

Signal word

Warning

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation



Appearance Liquid**Physical state** Liquid**Odor** Slight Ether**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Eyes 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 IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Hazards not otherwise classified (HNOC)**Other information**

- Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

19.79% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components	CAS-No	Weight %	Trade Secret
trans-1,2-Dichloroethene	156-60-5	60 - 70%	*
Hydrofluoroethers (solvent)	Proprietary	0 - 20%	*

4. FIRST AID MEASURES**First aid measures****Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**Skin contact:** Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.**Inhalation:** Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.**Ingestion:** Do not induce vomiting. Consult a physician.**Most important symptoms and effects, both acute and delayed****Symptoms** No information available.**Indication of any immediate medical attention and special treatment needed****Notes to physician:** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**Carbon dioxide (CO₂). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides. Hydrogen fluoride. Hydrogen chloride.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove all sources of ignition.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid temperatures above 150°C. Ensure adequate ventilation, especially in confined areas. Open drum carefully as content may be under pressure. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep cool. Keep away from direct sunlight. Keep away from heat and sources of ignition. Keep in properly labelled containers. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
trans-1,2-Dichloroethene - 156-60-5	790	790	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Viton gloves

Eye protection: Goggles. Safety glasses with side-shields

Skin and body protection: Impervious clothing

General Hygiene Considerations Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid			
Appearance Liquid	Odor Slight Ether	Color Colorless	Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
Melting point/freezing point	No information available		pH	Not applicable
Flash point	Not Applicable	Cleveland Open Cup	Boiling point / boiling range	(solvent) 42 °C / 109 °F
Flammability (solid, gas)	No information available		Evaporation rate	No information available
Upper flammability limit:	(solvent) 13.7%		Flammability Limit in Air Lower flammability limit:	(solvent) 6.7%
Vapor pressure	(solvent) 350 mmHg @ 77°F		Vapor density	No information available
Specific Gravity	1.53		Water solubility	Insoluble in water
Solubility in other solvents	No information available		Partition coefficient	No information available
Autoignition temperature	(solvent) 396 °C / 745 °F		Decomposition temperature	No information available
Kinematic viscosity	No information available		Dynamic viscosity	No information available
Explosive properties		No information available		
Oxidizing properties		No information available		

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability	Stable up to approximately 150°C
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Possibility of Hazardous Reactions

Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid	Strong sunlight for prolonged periods. Direct sources of heat.
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Hazardous Decomposition Products

Hazardous Decomposition Products
Incompatible materials

Hydrogen chloride. Hydrogen fluoride

Incompatible materials

Strong bases. Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation

Eye contact Moderately irritating to the eyes.

Skin contact Irritating to skin.

Inhalation Harmful by inhalation. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Information on toxicological effects

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

Sensitization No sensitization responses were observed.

Mutagenic effects: Did not show mutagenic or teratogenic effects in animal experiments.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

STOT - Single Exposure None under normal use conditions.

STOT - Repeated Exposure None under normal use conditions.

Aspiration hazard Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 19.79% 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) 39767 mg/kg

ATEmix (inhalation-dust/mist) 1.7 mg/l

ATEmix (inhalation-vapor) 8109 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

30.685% of the mixture consists of component(s) of unknown hazards to the aquatic environment

trans-1,2-Dichloroethene - 156-60-5	
Algae/aquatic plants	-
Fish	135: 96 h Lepomis macrochirus mg/L LC50 static
Crustacea	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Components	Partition coefficient
trans-1,2-Dichloroethene - 156-60-5	1.48

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

Components	trans-1,2-Dichloroethene - 156-60-5
RCRA - Basis for Listing	-
RCRA Hazardous Waste D List	D001 Listed.
RCRA U List of Hazardous Wastes - Reference:	U079

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA
DSL: All of the components in this product are listed in DSL
EINECS/ELINCS This product complies with EINECS/ELINCS
CHINA: This product complies with China IECSC.
KECL: This product does not comply with Korea KECL.
PICCS: This product complies with Philippines PICCS.
AICS: This product does not comply with Australia AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - 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

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 Hazard	No
Fire Hazard	No

Sudden release of pressure hazard
Reactive Hazard

No
No

CWA (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

State Regulations (RTK)**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
trans-1,2-Dichloroethene - 156-60-5	Substance no. 0653 Listed	Listed.	Listed.
Hydrofluoroethers (solvent) -	Not Listed	Not Listed	Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION**Nfpa:**

Health: 3

Flammability: 1

Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 2

Flammability: 1

Physical hazards 0

Personal protection B

Issue Date 22-Dec-2015

Revision Date 22-Dec-2015

Revision Note

Not applicable

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