



SAFETY DATA SHEET

Issue Date 05-Jun-2018

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Version 2

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

Product identifier

Product Name ALIMEX

Other means of identification

Product code: 349000

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Descaler.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
Phone: (903) 534-8021
Fax: (903) 581-4376

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)

WHMIS 2015 Regulatory Status

This chemical is considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

Skin corrosion/irritation	Category 2 Sub-category B
Serious eye damage/eye irritation	Category 2A

Label Elements

EMERGENCY OVERVIEW

Signal word

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation



Appearance Aqueous solution

Physical state Liquid

Odor None

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician

Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

This material is considered hazardous by the Canadian Hazardous Products Regulation (WHMIS 2015).

Components	CAS-No	Weight %	Trade Secret
Sulfamic Acid	5329-14-6	5 - 10%	*
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5%	*

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

4. FIRST AID MEASURES

First aid measures

Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Skin contact:	Rinse with plenty of water. If symptoms persist, call a physician.
Inhalation:	In the case of inhalation of aerosol/mist consult a physician if necessary. Move to fresh air.
Ingestion:	Do not induce vomiting. Rinse mouth. Drink plenty of water. 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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known based on information supplied

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment 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 personal protective equipment.

Environmental precautions

Environmental precautions: Should not be released into the environment. Contain all contaminated water for removal and treatment.

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: Neutralise with Soda Ash. Soak up with inert absorbent material.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed. Keep away from direct sunlight.

Packaging materials Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Exposure Guidelines

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
Dipropylene glycol monomethyl ether - 34590-94-8	100 ppm	100 ppm	600 ppm

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: No personal respiratory protective equipment normally required. Breathing apparatus needed only when aerosol or mist is formed.

Hand protection: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves

Eye protection: Safety glasses with side-shields

Skin and body protection: Chemical resistant apron

General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state Liquid
Appearance Aqueous solution **Odor** None **Color** Clear Yellow **Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
Melting point/freezing point	-2 °C / 28.4 °F		pH	1.0
Flash point	No information available	Cleveland Open Cup	Boiling point / boiling range	101 °C / 214 °F
Flammability (solid, gas)	No information available		Evaporation rate	No information available
Upper flammability limit:	No information available		Flammability Limit in Air	
Vapor pressure	No information available		Lower flammability limit:	No information available
Specific Gravity	> 1.0		Vapor density	No information available
Solubility in other solvents	No information available		Water solubility	Soluble in water
Autoignition temperature	No information available		Partition coefficient	No information available
Kinematic viscosity	No information available		Decomposition temperature	No information available
Explosive properties		No information available	Dynamic viscosity	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 under normal conditions

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 No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products Incomplete combustion may produce small amounts of sulfur oxides

Incompatible materials

Incompatible materials Bases, Inorganic acid chlorides, Cyanides, Sulphides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye contact Avoid contact with eyes. Severely irritating to eyes.

Skin contact May cause irritation.

Inhalation Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

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

Components	Oral LD50	Dermal LD50	Inhalation LC50
Sulfamic Acid - 5329-14-6	= 1450 mg/kg (Rat)	-	-
Dipropylene glycol monomethyl ether - 34590-94-8	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	-

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

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 13511 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

1.27503% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Sulfamic Acid - 5329-14-6	
Algae/aquatic plants	-
Fish	14.2: 96 h Pimephales promelas mg/L LC50 static
Crustacea	-
Dipropylene glycol monomethyl ether - 34590-94-8	
Algae/aquatic plants	-
Fish	10000: 96 h Pimephales promelas mg/L LC50 static
Crustacea	1919: 48 h Daphnia magna mg/L LC50

Persistence and degradability

Readily biodegradable, according to appropriate OECD test. (based on components).

Bioaccumulation

No information available.

Mobility

Soluble in water.

Components	Partition coefficient
Dipropylene glycol monomethyl ether - 34590-94-8	-0.064

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 Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not Regulated

TDG Not Regulated

IATA-DGR Not Regulated

IMO / IMDG Not Regulated

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 does not comply 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:	All the constituents of this material are listed on the Australian 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

Canada HPR Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

US 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	No
Reactive Hazard	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:
Sulfamic Acid - 5329-14-6	Substance no. 1770 Listed.	Not Listed	Not Listed
Dipropylene glycol monomethyl ether - 34590-94-8	Substance no. 0804 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION**NFPA:**

Health: 1

Flammability: 0

Instability 0

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

HMIS health rating:

Health: 1

Flammability: 0

Physical hazards 0

Personal protection B

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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