



SAFETY DATA SHEET

Issue Date 17-Nov-2016

Revision Date 17-Nov-2016

Version 1

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

Product identifier

Product Name SumTech CSM-2

Other means of identification

Product code: 340424

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
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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label Elements

EMERGENCY OVERVIEW

Signal word

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

**Appearance** Paste**Physical state** Solid**Odor** Mild**Precautionary Statements - Prevention**

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

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

- May be harmful if swallowed
- May be harmful in contact with skin

Unknown Acute Toxicity

35.7135% 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
Mineral Oil	Proprietary	60 - 70%	*
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	1 - 10%	*
Molybdenum disulfide	Proprietary	1 - 10%	*
1,2-Propanediol	57-55-6	1 - 10%	*
Benzenesulfonic acid, dodecyl-, calcium salt (2:1)	26264-06-2	1 - 10%	*
Graphite	Proprietary	0.1 - 1%	*

4. FIRST AID MEASURES

First aid measures

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Remove and wash contaminated clothing before re-use.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

Ingestion: Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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:

Use dry chemical, CO₂, water spray or "alcohol" foam.

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

Specific hazards arising from the chemical

Collect contaminated fire extinguishing water separately. Do not allow to enter drains or surface water.

Hazardous combustion products Carbon oxides. Phosphorus oxides. Oxides of sulfur.

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: Evacuate personnel to safe areas. Use personal protective equipment.

Environmental precautions

Environmental precautions: Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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: Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Always replace cap after use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Keep in properly labelled containers. Keep away from heat and sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
Mineral Oil -	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	
Molybdenum disulfide -	-	15 mg/m ³ (Molybdenum, as Mo, insoluble compounds total dust)	
Graphite -	-	5 mg/m ³ (respirable fraction)	

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:** Breathing apparatus needed only when aerosol or mist is formed.
- Hand protection:** Gloves made of plastic or rubber
- Eye protection:** Safety glasses with side-shields
- Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect
- General Hygiene Considerations** Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid			
Appearance Paste	Odor Mild	Color Black	Odor threshold No information available
Property	Values	Remarks • Method	
Melting point/freezing point	No information available		pH Not applicable
Flash point	Not Applicable	Cleveland Open Cup	Boiling point / boiling range No information available
Flammability (solid, gas)	No information available		Evaporation rate No information available
Upper flammability limit:	No information available		Flammability Limit in Air
Vapor pressure	< 0.001 hPa at 20 °C		Lower flammability limit: No information available
Specific Gravity	1.0		Vapor density No information available
Solubility in other solvents	No information available		Water solubility Insoluble 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
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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	No special storage conditions required
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Hazardous Decomposition Products

Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors
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Incompatible materials

Incompatible materials	Oxidising agents
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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	May be harmful if swallowed. May be harmful if absorbed through the skin
Eye contact	Moderately irritating to the eyes.
Skin contact	Irritating to skin.
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
Molybdenum disulfide -	-	-	> 2820 mg/m ³ (Rat) 4 h
1,2-Propanediol - 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Benzenesulfonic acid, dodecyl-, calcium salt (2:1) - 26264-06-2	1086 - 1980 mg/kg (Rat)	-	-
Graphite -	> 10000 mg/kg (Rat)	-	-

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.
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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	35.7135% 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)	2297 mg/kg
ATEmix (dermal)	2097 mg/kg
ATEmix (inhalation-vapor)	29753 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

37.8505% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Mineral Oil -	
Algae/aquatic plants	-
Fish	5000: 96 h Oncorhynchus mykiss mg/L LC50
Crustacea	1000: 48 h Daphnia magna mg/L EC50
1,2-Propanediol - 57-55-6	
Algae/aquatic plants	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50
Fish	41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50
Crustacea	1000: 48 h Daphnia magna mg/L EC50 Static
Benzenesulfonic acid, dodecyl-, calcium salt (2:1) - 26264-06-2	
Algae/aquatic plants	-
Fish	10.8: 96 h Oncorhynchus mykiss mg/L LC50 static
Crustacea	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

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.

14. TRANSPORT INFORMATION

DOT

Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA:	Listed in TSCA
DSL:	Not 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:	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	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Components	CERCLA/SARA - Hazardous Substances and their Reportable Quantities	CERCLA/SARA RQ
Benzenesulfonic acid, dodecyl-, calcium salt (2:1) - 26264-06-2	*	1000 lb

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:
Mineral Oil -	Substance no. 1437 Listed. Substance no. 4004 Listed.	Not Listed	Not Listed
Molybdenum disulfide -	Not Listed	Listed.	Not Listed
1,2-Propanediol - 57-55-6	Substance no. 3595 Listed.	Not Listed	Listed.
Benzenesulfonic acid, dodecyl-, calcium salt (2:1) - 26264-06-2	Substance no. 0318 Listed.	Listed.	Listed.
Graphite -	Substance no. 3325 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 1

Flammability: 1

Instability 0

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

HMIS health rating:

Health: 1

Flammability: 1

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