



# SAFETY DATA SHEET

Issue Date 16-Nov-2016

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Version 1

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

**Product identifier**

**Product Name** SumTech CSM-1

**Other means of identification**

**Product code:** 340423

**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**

24.636% 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%	*
Molybdenum disulfide	Proprietary	1 - 10%	*
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	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, CO<sub>2</sub>, 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.

**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 <sup>3</sup> ):	IDLH:
Mineral Oil -	5 mg/m <sup>3</sup> (oil mist)	5 mg/m <sup>3</sup> (oil mist)	
Molybdenum disulfide -	-	15 mg/m <sup>3</sup> (Molybdenum, as Mo, insoluble compounds total dust)	
Graphite -	-	5 mg/m <sup>3</sup> (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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	<u>pH</u>	<u>Not applicable</u>
<b>Melting point/freezing point</b>	No information available		<b>Boiling point / boiling range</b>	No information available
<b>Flash point</b>	Not Applicable	Cleveland Open Cup	<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available		<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available		<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	< 0.001 hPa at 20 °C		<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	1.0		<b>Water solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No information available		<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available		<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available		<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>		No information available		
<b>Oxidizing properties</b>		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** Thermal decomposition can lead to release of irritating gases and vapors

### Incompatible materials

**Incompatible materials** Oxidising agents

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	May be harmful if swallowed. May be harmful if absorbed through the skin
<b>Eye contact</b>	Moderately irritating to the eyes.
<b>Skin contact</b>	Irritating to skin.
<b>Inhalation</b>	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Molybdenum disulfide -	-	-	> 2820 mg/m <sup>3</sup> ( 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.  
**Mutagenic effects:** Did not show mutagenic or teratogenic effects in animal experiments.

<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>STOT - Single Exposure</b>	None under normal use conditions.
<b>STOT - Repeated Exposure</b>	None under normal use conditions.
<b>Aspiration hazard</b>	Not applicable.

#### **Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 24.636% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	2443 mg/kg
<b>ATEmix (dermal)</b>	2104 mg/kg
<b>ATEmix (inhalation-vapor)</b>	32289 mg/l

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No known hazards to the aquatic environment.

32.406% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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

### **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**

<b>TSCA:</b>	Listed in TSCA
<b>DSL:</b>	Not listed in DSL
<b>EINECS/ELINCS</b>	This product does not comply with EINECS/ELINCS
<b>CHINA:</b>	This product complies with China IECSC.
<b>KECL:</b>	This product does not comply with Korea KECL.
<b>PICCS:</b>	This product complies with Philippines PICCS.
<b>AICS:</b>	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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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

<b>16. OTHER INFORMATION</b>
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**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**