

Moly Paste 500	SDS No.	0100
SUMICO LUBRICANT CO., LTD.	Revision Date	Oct. 29, 2014

SAFETY DATA SHEET(SDS)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : Moly Paste 500
 Company Name : SUMICO LUBRICANT CO., LTD.
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2 HAZARDS IDENTIFICATION

Hazards Category
 Respiratory/Skin Sensitizer : Category 1

The one without the description cannot be classified.

Allocation of Label Elements

Pictogram
 Exclamation mark



Signal Word
 Warning

Hazard Statement
 May cause an allergic skin reaction

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients and Contents

Component name	CAS number	wt%
Mineral oil	Trade secret	5~10
Molybdenum disulfide	1317-33-5	45~55
Triethanolamine	102-71-6	<1
Petrolatum	8009-03-8	30~40

4 FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a physician if you feel unwell.

Skin

Wash with plenty of soap and water.
 Call a physician if you feel unwell.

Eye

Immediately flush eyes with plenty of water for at least 15 minutes.
 Call a physician.

Ingestion

Rinse mouth. Do not induce vomiting.
 Call a physician.

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5 FIRE-FIGHTING MEASURES

Extinguishing Media

Dry chemical, carbon dioxide(CO₂), and foam

Specific Fire Fighting

On small fires use carbon dioxide (CO₂) or dry chemical.

On large fires use dry chemical or foam.

Do not approach containers suspected to be hot.

May emit poisonous fumes or corrosive fumes.

Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ventilate well indoor until disposal is finished.

Wear protective equipments in case of operation.

Environmental Precautions

Avoid release to the environment.

Methods for Cleaning Up

Remove potential ignition source in vicinity as soon as possible.

Prepare extinguishing agent.

Prevent leakage by enclosing with nonflammables and collect into empty container by scoop or the like.

7 HANDLING AND STORAGE

Handling

Do not breathe vapor or mist.

Do not get in eyes, on skin, or on clothing.

Wear protective equipments when risk of exposure occurs.

Use in a well ventilated area.

Use spark-proof tools and explosion-proof equipment.

Keep away from heat, spark and flames.

Fire prohibited strictly.

After handling, wash well hands and face and rinse your mouth.

Do not eat, drink or smoke during work.

Avoid physical damage to containers.

Keep containers securely sealed when not in use.

Storage

Fire prohibited strictly.

Keep away from sources of ignition.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Separate from oxidizing materials.

Store in a tightly closed container.

8 EXPOSURE/PERSONAL PROTECTION

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

Exposure Limit Values

Chemical name	ACGIH
Mineral oil	TWA 5mg/m ³ (mist)
Molybdenum disulfide	TWA 3mg/m ³
Triethanolamine	TWA 5mg/m ³

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Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Skin Protection

Wear chemical protective gloves and protective clothing to prevent skin exposure.

Eye Protection

Wear chemical worker's goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Semi-Solid
Color	:	Dark gray
Odor	:	Oil odor
pH	:	Not available
Boiling Point(°C)	:	Not available
Melting Point(°C)	:	Not available
Flash point(°C)	:	>200 (Base oil)
Auto-ignition Temperature(°C)	:	Not available
Flammability or Explosive Limits		
Lower	:	Not available
Upper	:	Not available
Vapour Pressure (KPa)	:	Not available
Vapour Density	:	Not available
Relative density(g/cm ³)	:	1.45
Solubility	:	Insoluble in water
Partition Coefficient: n-octanol/water	:	Not available
Decomposition Temperature(°C)	:	Not available

10 STABILITY AND REACTIVITY

Stability

Stable under normal temperatures and pressures.

Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

Incompatible Materials

Strong oxidizing agents, acids, alkalis.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other oxidized substances.

11 TOXICOLOGICAL INFORMATION

Chemical name	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation: vapour)	Acute toxicity (inhalation: dust, mist)	Skin corrosion / irritation	Serious eye damage / eye irritation
Mineral oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Triethanolamine	Not classified	Not classified	Not applicable	Classification not possible	Classification not possible	Category 2	Category 2A

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Petrolatum	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
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Chemical name	Respiratory/sk in sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs/systemic toxicity following single exposure	Specific target organs/systemic toxicity following repeated exposure	Aspiration hazard
Mineral oil	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Triethanolamine	Respiratory sensitizer: Classification not possible; Skin sensitizer: Category 1	Not classified	Not classified	Not classified	Category 3 (respiratory tract irritation)	Not classified	Classification not possible
Petrolatum	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible

12 ECOLOGICAL INFORMATION

Chemical name	Hazardous to the aquatic environment (Acute)	Hazardous to the aquatic environment (Chronic)
Mineral oil	Classification not possible	Classification not possible
Molybdenum disulfide	Classification not possible	Classification not possible
Triethanolamine	Not classified	Not classified
Petrolatum	Classification not possible	Classification not possible

13 DISPOSAL CONSIDERATIONS

Dispose of contents /container in accordance with local/regional/national/international regulations.

14 TRANSPORT INFORMATION

UN Class

Not regulated.

UN No.

Not regulated.

Packing Group

Not regulated.

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15 REGULATORY INFORMATION

Follow all regulations in your country.

EC Regulation : Not classified as dangerous under (EC) No 1272/2008.

OSHA Status : Not classified as hazardous under OSHA.

16 OTHER INFORMATION

References

JIS Z 7253

GHS data-base (NITE)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.