

Sumiplex SFB No.1	SDS No.	2742
SUMICO LUBRICANT CO., LTD.	Revision Date	Apr. 18, 2017

SAFETY DATA SHEET(SDS)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : Sumiplex SFB No.1
 Company Name : SUMICO LUBRICANT CO., LTD.
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2 HAZARDS IDENTIFICATION

Hazards Category
 Not applicable

Allocation of Label Elements

Pictogram
 Not applicable

Signal Word
 Not applicable

Hazard Statement
 Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients and Contents

Component name	CAS number	wt%
Mineral oil	Trade secret	40~50
Synthetic oil	Trade secret	30~40
Lithium complex soap	Trade secret	10~20
Organomolybdenum compound	Trade secret	1~5

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.

5 FIRE-FIGHTING MEASURES

Extinguishing Media

Dry chemical, carbon dioxide(CO2), and foam

Specific Fire Fighting

Must not use water to extinguish fires.

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Quickly removed from the surrounding flammable.

The use of extinguishing agents specified.

Fire fighting is done from the windward.

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

On large fires use dry chemical or foam.

Sealed containers that are exposed to high temperatures over the water to cool.

Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

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.

Absorbed to non-flammable dry sand, if a large amount of spill to prevent enclosed in embankment.

Spilled material is collected in a container that can be sealed, then remove to safe place.

Deposits, waste treatment is based on the local regulations.

Working from the windward, to evacuate people downwind.

7 HANDLING AND STORAGE

Handling

Use in a well ventilated area.

Keep away from heat, spark and flames.

Use spark-proof tools and explosion-proof equipment.

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

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

Leakage, overflow, to prevent scattering, we do not generate steam in vain.

In the handling area and deny unnecessary entry.

Resting place shall not bring contaminated protective equipment such as gloves.

Wear protective equipments when risk of exposure occurs.

To work in an enclosed area that you work with appropriate protective equipment with a local exhaust ventilation sufficient.

Precautions

Do not breathe vapor or mist.

Handling of the outdoors, as much as possible to work from the windward.

Handling Precautions for Safety

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.

Safe containers and packaging materials

None in particular.

8 EXPOSURE/PERSONAL PROTECTION

Engineering Controls

Handling equipment is used explosion-proof.

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Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design. That the equipment and shall become hot, and the source of ignition in the vicinity of the location, such as handling not been placed.

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

Exposure Limit Values

Chemical name	ACGIH
Mineral oil	TWA 5mg/m3(mist)

Personal Protective Equipment

Respiratory Protection

Wear a gas mask for organic gas as required.

Skin Protection

Oil-resistant gloves

Eye Protection

Wear chemical worker's goggles.

Skin and body protection

Such as long-sleeved work clothes

Hygiene measures

Do not eat, drink or smoke during work.

Replacement of the adsorbent, such as the mask is performed each time or use plans.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Semi-solid	
Color	:	Blue	
Odor	:	Oil odor	
pH	:	Not available	
Boiling Point(°C)	:	Not available	
Melting Point(°C)	:	Not available	
Flash point(°C)	:	224	(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/cm3)	:	0.90	
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.

Reactivity

No self-reactive

Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other oxidized substances.

11 TOXICOLOGICAL INFORMATION

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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
Synthetic oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lithium complex soap	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Organomolybdenum compound	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible

Chemical name	Respiratory/skin 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
Synthetic 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
Lithium complex soap	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
Organomolybdenum compound	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

Sumiplex SFB No.1	SDS No.	2742
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Synthetic oil	Classification not possible	Classification not possible
Lithium complex soap	Classification not possible	Classification not possible
Organomolybdenum compound	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.

15 REGULATORY INFORMATION

Follow all regulations in your country.

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.

スミプレックス SFB No. 1

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試験項目 Test Item		試験方法 Test Method	代表性状 Typical Characteristics
外 観 Appearance		—	青色グリース Blue grease
密 度 Density		—	0.90
ち ょ う 度 Worked penetration		JIS K 2220	310
滴 点 Dropping poin		JIS K 2220	>260
離 油 度 Oil separation percentage		JIS K 2220	3.6
低温トルク Low temperature torque	-30℃ 起動トルク Starting	JIS K 2220	209
	(mN・m) 回転トルク Revolving		48
ロール安定度 Roll Stability	80℃,2h	ASTM D 1831	+23
シェル 4 球式耐荷重能 Shell four ball test(WL)	(N)	LNL	981
		WL	3,923
		LWI	555
シェル 4 球式耐摩耗性 Shell four ball test (Wear)		ASTM D 2266	0.40
基 油 Base oil		—	合成油、鉱油 Synthetic oil, Mineral oil
増ちょう剤 Thickener		—	リチウムコンプレックス石けん Lithium complex soap
基油動粘度 Kinematic viscosity of base oil	(mm ² /s)	JIS K 2283	100
	40℃ 100℃		12

上記性状特性は代表値であり、保証値ではありません。
また製品の性能向上等のため、予告なく仕様を変更することがあります。

The above properties and characteristics are typical values and are not intended for guarantee.
Specifications are subject to change without notice.



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