

# SAFETY DATA SHEET [GHS]

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

### PRODUCT IDENTIFICATION

Product Name : Lubrication/seizure prevention agent

Product Use : Heat radiation and Lubrication coating agent (metal surface coat film forming agent)

### COMPANY IDENTIFICATION

Manufacturer : Press and Mold Maintenance Parts Division, MISUMI Die & Mold Business  
Company, MISUMI Corporation

Address : Iidabashi First Bldg., 5-1, Koraku 2-chome, Bunkyo-ku, Tokyo 112-8583, Japan

Business Phone : +81-3-5805-7145

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## 2. HAZARDS IDENTIFICATION

### Pictogram



### Signal word

**Danger**

### Hazard Statements

Harmful if swallowed  
Serious medicine wound, eye injury  
Serious eye injury  
Skin irritation

### Precautionary statement

- (1) Don't deal with it until reads and understands all the safe cautions.
- (2) Don't remove to other containers.
- (3) In order to prevent substance damage, absorb with an absorber what was distilled.
- (4) Wear a protective glove / protective glasses / protection face / protective cloth.
- (5) After handling should wash a hand well.
- (6) Don't inhale a particulate / gas / mist / steam / spray.
- (7) When you use this product, don't carry out eating and drinking or smoking.
- (8) Remove the polluted clothing, and when you re-use it, wash.

### Emergency Measures

- If it goes into eyes, will be careful for more than 15 minutes with running water, rinse, and receive an ophthalmologist's allowance.
- If swallowed, call a physician immediately.
- When you adhere to the skin, wash out with soap and much water. Receive a doctor's allowance, if abnormal.

### Storage

Keep it in a container with corrosiveness-proof / corrosiveness-proof lining.  
Avoid humidity, make a container airtight and keep at the well ventilated place.

### Disposal

- Content should be used up before disposal of container.
- Dispose of a container/content in accordance with a local, regional, and a national regulations.

### PHYSICAL/CHEMICAL HAZARD

### Classification categories

Explosives	Not categorized
Flammable gases	Not categorized
Flammable aerosols	Not categorized
Oxidizing gases	Not categorized
Gases under pressure	Not categorized
Flammable liquids	Not categorized
Flammable solids	Not categorized
Self-reactive substances	Not categorized
Pyrophoric liquids	Not categorized
Pyrophoric solids	Not categorized

<b>PHYSICAL/CHEMICAL HAZARD</b>	<b>Classification categories</b>
Self-Heating Substances	Not categorized
Substances which in contact with water, emit flammable gasses	Not categorized
Oxidizing liquids	Not categorized
Oxidizing solids	Not categorized
Organic peroxides	Not categorized
Corrosive metals	It corrodes amphoteric metal (Al, Zn etc.)
<b>HEALTH HAZARD</b>	<b>Classification categories</b>
Acute toxicity – Oral	Category 4
“ – Dermal	Not categorized (no data)
“ – Inhalation (gas, vapor, dust, mist)	Not categorized (no data)
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization (solid, liquid, gas)	Not categorized (no data)
Skin Sensitization	Not categorized (no data)
Germ cell mutagenicity	Not categorized (no data)
Carcinogenicity	Not categorized (no statement)
Reproductive toxicity	Not categorized (no data)
Specific target organ toxicity – Single exposure	Not categorized (no data)
“ – Repeated exposure	Not categorized (no data)
Aspiration hazard	Not categorized (no information)
<b>ENVIRONMENTAL HAZARD</b>	<b>Classification categories</b>
Hazardous to the aquatic environment – Acute toxicity	Outside category
“ – Chronic toxicity	Not categorized (no data)
Hazardous to the ozone layer	Not categorized (no data)

### 3. COMPOSITION and INFORMATION ON INGREDIENTS

**Distinction of single substance or mixture:** Mixture

#### Hazardous ingredients and concentration

Ingredients	Content(%)	CAS No.	EINECS No.	Other
Compound alkali silicate	13-15	Non-disclosure	–	
Boron nitride	16-17	10043-11-5	233-136-6	
Ceramic color (Co, Sb)	2	Non-disclosure	–	

### 4. FIRST-AID MEASURES

<b>Eye Contact</b>	<p>Running water washes for at least 15 minutes immediately.</p> <p>A finger opens an eyelid well and it makes it water spread well to all the corners of an eyeball and an eyelid in the case of eyewashing.</p> <p>A contact lens is immediately removed, unless it adheres.</p> <p>When a irritation continue, undergo an ophthalmologist's medical treatment immediately.</p>
<b>Skin Contact</b>	<p>Wash well with soap and water after failing to pass with water the portion which touched the product.</p> <p>Change should be looked at by appearance or feel a pain for it, and when itchiness comes out, receive a doctor's diagnosis immediately.</p>
<b>Inhalation</b>	<p>Make it move to the place of fresh air immediately.</p> <p>It is kept warm by loosening clothes and make it quiet.</p> <p>When sick, a doctor's diagnosis is received promptly.</p>

<b>Ingestion</b>	Washing the inside of a mouth with water, and the water/milk of 1-2 cups are given, and vomit out the content in the stomach. When sick, receive a doctor's disposal immediately. When disaster victims do not have consciousness, don't give nothing from a mouth.
<b>Expected acute symptom and late symptom:</b>	Skin irritancy, strong eye irritancy
<b>The most important symptom:</b>	With no special affairs
<b>Protection of those who perform emergency correspondence:</b>	Avoid contact with skin. Wear protective gloves, eye/face protection and long sleeved clothes if necessary.
<b>Special notes to in medical treatment:</b>	Without report information

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media</b>	This product is non-inflammable
<b>Extinguishing media that do not use it</b>	No information
<b>Fire Fighting Procedures</b>	This product is non-inflammable
<b>Peculiarity danger / hazardous property</b>	No information
<b>Special protective equipment for fire-extinguishing workers</b>	No information

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

- Avoid contact with skin. Wear appropriate protective equipment (protective gloves, eye/face protection, apron and long sleeved clothes) when handling spill of this product.
- People are evacuated from a dangerous area. A rope is stretched around a dangerous area and entry of people is forbidden.

### Protective equipment

Protective gloves, eye/face protection, apron and long sleeved clothes.

### Emergency procedures

When a fire breaks out, cope with it according to the items mentioned of Section-5.

### Environmental precautions

- Avoid that a leakage thing with high concentration carries out direct runoff to a river or a sewer.

### Containment, the purification method, and material of a leakage thing

- Eliminate all ignition sources such as heat, sparks, open flames and combustible materials.
- The suitable fire extinguisher for fire extinguishing is prepared.
- **Falls in small quantities:**  
After making dry sand, sawdust, Wes, etc. absorb, it collects in the container which can be sealed.  
About a recovery impossible part, it washes away with a lot of water.
- **When an abundant outflow is carried out:**  
Enclose with banking etc., prevent an outflow, and collect after leading to a safe place.
- Wear protective equipment, and the collected leakage thing is put into an airtight container, and move a container to a safe place.

### Other Information

Dispose contaminant and waste in accordance with regulations relative to disposal.

## 7. HANDLING AND STORAGE

### Cautions on Handling :

- It is harmful, if touch the skin directly, it goes into an eye or it inhales.
- Avoid contact with skin. Wear protective gloves, eye/face protection and long sleeved clothes if necessary.
- Avoid that a worker inhales vapor / gas / mist / dust by ventilating a workplace place.
- After use, wash hands and gargle mouth thoroughly.

### Caution on Storage :

- Keep container tightly closed.
- Store ventilated indoor place.
- Keep reach out of children.
- Don't supposed to keep with a food and feed.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### Facilities recommendation :

- Do not locate heat/flame generating facilities to the work area.
- Install the equipment for eyewashing and body washing near the workplace place.

### Protective equipments :

<b>Respiratory protection</b>	Wear dust preventive mask. Wear self-contained breathing apparatus in case of operation in closed areas.
<b>Eye/Face protection</b>	Wear goggles type of eye protection or the whole face surface protection shield.
<b>Skin protection</b>	Wear appropriate gloves and clothes which are impervious to chemicals.
<b>Other protection</b>	The apron and safety shoes which were specified if needed are worn.

### Threshold Limit of Ingredient

It isn't established.

Ingredients	ACGIH(TLVs-TWA)	JOHSC	other

JOHSC : Japan Occupational Health Service Centre

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Greenish yellow slurry	<b>Solubility</b>	Easy, Water dilution
<b>Odor</b>	No odor	<b>Explosion limits</b>	Does not correspond
<b>Boiling point</b>	100-120°C	<b>Vapor pressure</b>	No data
<b>Melting point</b>	No data	<b>Vapor density</b>	No data
<b>Density</b>	1.3	<b>Ignition point</b>	Does not correspond
<b>Viscosity</b>	20-30 Pa·s	<b>Decomposition temp.</b>	No data
<b>pH</b>	11-11.5	<b>Flammability</b>	Nonflammable
<b>Flash point</b>	Does not correspond	<b>Other</b>	Especially nothing

**10. STABILITY AND REACTIVITY**

<b>Chemical stability</b>	Stable under the usual handling conditions. Nonflammability.
<b>Hazardous reactions</b>	Especially nothing
<b>Condition to avoid</b>	Don't supposed to do while lifting a container lid.
<b>Incompatible materials</b>	Don't make them touch amphoteric metal by which aluminum, tin, zinc, lead, etc.. Don't supposed to add a high concentration acid.
<b>Hazardous decomposition products</b>	No information
<b>Reactivity</b>	Stable on the usual handling conditions

**11. TOXICOLOGICAL INFORMATION**

**Health hazard information on ingredient** : There is no data of this product, so information about No.1 sodium silicate's data is indicated.

**The likely routes of exposure** : Skin contact, Mist contacts an eye.

<b>Ingredients</b>	<b>Oral</b>	<b>Dermal</b>	<b>Inhalation (gas/mist)</b>
Sodium silicate	LD50 1,280 mg/kg (rat)	No information	No information
Boron Nitride	LD50 3,150 mg/kg (rat)	No data	No data

**Acute toxicity (LD50,LC50,etc.)**

<b>Skin corrosion/irritation</b>	It is the classification 1B (U.N.GHS classification) by a film barrier test result (in vitro).
<b>Serious damage/irritation to eyes</b>	Classification 1
<b>Respiratory sensitization</b>	Cannot classify (no data)
<b>Skin sensitization</b>	Cannot classify (no data)

**Symptoms related to the physical,chemical and toxicological characteristics**

<b>Reproductive toxicity</b>	Cannot classify (no data)
<b>Specific target organ (Single exposure)</b>	Cannot classify (with no information)
<b>" (Repeat exposure)</b>	Cannot classify (with no information)
<b>Toxicity to respiratory organs</b>	Cannot classify (no data)
<b>Germ cell mutagenicity</b>	Cannot classify (no data)
<b>Carcinogenicity</b>	Cannot classify (no data)

**Delayed and immediate effects and also chronic effects from short- and long-term exposure;**

No information

**Other Information** : No information

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity (Acute)</b>	Cannot classify (no data)
<b>" (Chronic)</b>	Cannot classify (no data)
<b>Persistence and degradability</b>	No data
<b>Bioaccumulative potential</b>	No data
<b>Mobility in soil</b>	Although there is no data, it is thought that it moves to a water area from physicochemical properties.
<b>Other adverse effects</b>	The ingredient is not listed by the appendix of the Montreal Protocol.

### 13. DISPOSAL CONSIDERATION

- Content should be used up before disposal of container.
- Container/content should be disposed in accordance with local, regional and national regulations.
- It is neutralized with hydrochloric acid, sulfuric acid after the dilution with water and separates the sediment by filtration. (I handle it as incombustibles)
- When entrusting processing of waste, after notifying of danger and hazardous property enough, processing is entrusted to a processing contractor etc.

### 14. TRANSPORT INFORMATION

**International rule :**
**IMDG/IMO**

<b>UN Number</b>	3266
<b>UN Proper shipping name</b>	CORROSIVE LIQUID. N.O.S
<b>Transport hazard class</b>	8
<b>Packing group</b>	III
<b>Marine pollutant</b>	Un-corresponding

**ICAO/IATA**

<b>UN Number</b>	3266
<b>UN Proper shipping name</b>	CORROSIVE LIQUID. N.O.S
<b>Transport hazard class</b>	8
<b>Packing group</b>	III

**General information** : Follow the cautions command stated to Section-7  
"cautions on handling and storage."

**Ground transportation** : Comply stipulations of appropriate ground transportation regulations.

**Marine transportation** : Comply stipulations of appropriate maritime regulations.

**Air transportation** : Comply stipulations of appropriate air transportation regulations.

### 15. REGULATORY INFORMATION

<b>Industrial Safety and Health Law (Japan)</b>	Does not correspond
<b>Originance on Prevention of Organic Solvent Poisoning</b>	Does not correspond
<b>Pollutant Release and Transfer Register</b>	Does not correspond
<b>Poisonous and Deleterious Substances Control Law</b>	Does not correspond
<b>Fire Service Law (Japan)</b>	Does not correspond
<b>Ship Safety Law (Japan)</b>	Other corrosive substances
<b>Aviation Law</b>	Other corrosive substances

## 16. OTHER INFORMATION

**Preparation and revision date of SDS:** JUN 26, 2020

**References:**

- (1) Safety Data Sheet of the raw materials maker
- (2) "16514 chemistry goods" Chemical Daily
- (3) The "Sachs toxic substance databook" Maruzen
- (4) "Chemical substance Occupational Safety and Health regulation manual"

1. Although We are creating written contents based on data, information, data, etc. which have been obtained at present, they do not guarantee the perfection of information, and correctness. Moreover, it may be revised by the newly acquired knowledge.
2. It may be unable to predict to the hazardous property of a chemical substance.  
In users' responsibility, the handling should pay careful attention and please deal with it.
3. Do not especially use it for a medical use.