

# Safety Data Sheet (SDS)

SULMICS-121

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Substance name:	SULMICS-121
Company name:	NIHON SEIKO CO., LTD.
Address	3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO 162-0822 JAPAN
Charge section	NIHON SEIKO CO., LTD. SALES SECTION
Phone number	+81-3-3235-0031
Fax number	+81-3-3235-0034
E-mail address	<a href="mailto:mail@nihonseiko.co.jp">mail@nihonseiko.co.jp</a>
Emergency telephone number	NIHON SEIKO CO., LTD. NAKASE REFINERY QUALITY ASSURANCE SECTION +81-79-667-2121
Recommended use and restriction on use:	Industrial materials: Lubricant, etc.

## 2. HAZARDS IDENTIFICATION

GHS classification :	
Health hazards	Serious eye danger/eye irritation :Category 2A Specific target organ toxicity (STOT, single exposure) :Category 3 (Respiratory) Specific target organ toxicity (STOT, repeated exposure) :Category 1 (Lung)
GHS label:	
Hazard pictogram	
Signal word	Danger
Hazard statements	Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs (lung) through prolonged or repeated exposure.
Precautionary statements	<b>【Prevention】</b> Do not breathe dust. Wash pollution point thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. <b>【Response】</b> Get medical advice/attention if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. <b>【Storage】</b> Store locked up.

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 **NIHON SEIKO CO., LTD.**

<p>Other hazard not applicable to GHS classification hazard: The summary of important signs and assumed emergency:</p>	<p><b>【Disposal】</b> Dispose of contents/container in accordance with local/regional/national/international regulations(to be specified).  No information.  No information.</p>
<p><b>3.COMPOSITION / INFORMATION ON INGREDIENTS</b></p>	
<p>Substance/Mixture: General product description: Other name: Chemical property (Chemical formula etc.):  CAS number:  Component and its content:  EINECS number:  Impurity and stabilizing additive that contribute to GHS Classification:</p>	<p>Mixture Preparation of Tin Sulfide -  Tin Sulfide: SnS Ditin trisulfide: Sn<sub>2</sub>S<sub>3</sub> Graphite: C Tin Sulfide: 1314-95-0 Ditin trisulfide: 12067-23-1 Graphite: 7782-42-5 Non-disclosure *Please contact us. Tin Sulfide: 215-175-0 Ditin trisulfide: 810-388-0 Graphite: 203-473-3  No information.</p>
<p><b>4.FIRST AID MEASURES</b></p>	
<p>Following inhalation:  Following skin contact:  Following eye contact:   After ingestion:  Most important symptoms and effects ,both acute and delayed: Protection of person who do first aid: Special precaution statement for doctor:</p>	<p>Move affected person to fresh air. Seek medical attention if you feel unwell. Wash with water and remove clothes. If skin irritation persists, seek medical attention. In case of eye contact, flush with running water (or purified water) carefully for several minutes. If wearing contact lenses that can be removed easily, remove the contact lenses. If eye irritation persists, Seek medical attention. Rinse mouth with water. Seek medical attention if you feel unwell.  No information.  No information.  No information.</p>
<p><b>5.Fire-fighting measure</b></p>	
<p>Extinguishing media:  Unsuitable extinguishing media: Special hazards arising from the Substance or mixture: Specific fire-fighting:</p>	<p>Use fire-fighting measures that suit the environment. The product is not combustible and does not support the combustion. No information.  Poisonous fume by combustion. Move the product to safe place promptly when it is a fire in the surrounding. If it is non-transferable, sprinkle the container and the circle with water and cool down.</p>

Protection for fire-fighter:	Wear suitable protective equipment in fire-fighting.
<b>6.Accidental release measures</b> Personal precautions, protective equipment and emergency procedures:  Environmental precautions:  Methods and material for containment and cleaning up:  Prevention of second disaster:	Avoid formation of dust. Ensure adequate ventilation. Keep unprotected persons away. Although the substance has no acute toxicity, it is advised to avoid contact with skin, eyes, and clothing – wear suitable protective equipment. Avoid inhalation of dust. It is advised that in the event of an accidental release the product should be prevented from reaching the sewage system or any water course and penetrating the soil. Dispose of spilled material in accordance with the relevant regulations.  In any case avoid dust formation. Sweep all spilled material or use an appropriate industrial vacuum cleaner. Collect spilled material in suitable containers or closed plastic bags for recovery or disposal. For more information on exposure controls/personal protection or disposal considerations, check section 8 and 13 of this safety data sheet.
<b>7.Handling and storage</b> Handling: Technological countermeasure (local ventilation/ General Ventilation etc.) Safety precaution  Avoid contact Hygiene measure  Storage: Safety storage condition  Safety packaging material	Provide a local dust collection system in the places where dust can be generated. Provide dust protective mask in the handling position.  Do not handle until all safety precautions have been read and understood. Work by wearing suitable protective equipment. Check section 10. Avoid inhalation or ingestion. General occupational hygiene measures are required to ensure a safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices). No eating, drinking and smoking at the workplace. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home. Do not blow dust off with compressed air.  Store in well ventilated dry area with low humidity and sealed state.  Check whether the container is suitable for storage.

## 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Prevent formation of dust where possible. Ensure appropriate ventilation/exhaustion at machinery and places where dust can be generated. Any deposit of dust which cannot be avoided must be regularly removed using preferably appropriate industrial vacuum cleaners or central vacuum systems. Waste air is to be released into the atmosphere only when it has passed through suitable dust separators. Waste water generated during the production process or cleaning operations should be collected and should preferably be treated in an on-site waste water treatment plant which ensures efficient removal.
Exposure control limits Effect of over exposure: ACGIH	Tin Sulfide: 2mg/m <sup>3</sup> TLV-TWA (Tin, as Sn) Graphite: 2mg/m <sup>3</sup> TLV-TWA (Respirable fraction )
Personal protective equipment: Respiratory protection Hand protection Eye protection Skin and body protection Special precaution statement	Dust protective mask(As appropriate) Protective gloves Protective glasses Protective high boots and cloth Avoid environmental discharge.

## 9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state Figure Color	Solid Powder Black ash color
Odor:	Characteristic odor
Odor threshold:	Not applicable as odorless.
pH:	No information.
Melting point:	No information.
Initial boiling point and boiling range:	No information.
Flash point:	No information.
Evaporation rate:	No information.
Flammability (solid, gas):	No information.
Upper/lower flammability or explosive limits:	No information.
Vapor pressure:	No information.
Vapor density:	No information.
Relative density:	No information.
Solubility(ies):	No information.
Partition coefficient n-octanol/water:	No information.
Auto-ignition temperature:	No information.
Decomposition temperature:	No information.
Viscosity:	No information.
Other:	No information.

<b>10.STABILITY AND REACTIVITY</b>		
Reactivity:	No information.	
Chemical stability:	Under normal conditions of use and storage, the product is stable.	
Possibility of hazardous reactions:	It may decompose on contact with strong oxidizer and generate toxic and flammable gases.	
Conditions to avoid:	No information.	
Incompatible materials:	Strong oxidizer	
Hazardous decomposition products:	No information.	
Other:	No information.	
<b>11.TOXICOLOGICAL INFORMATION</b>		
	Tin Sulfide(SnS,Sn <sub>2</sub> S <sub>3</sub> )	Graphite
Acute Toxicity (Oral):	Classification not possible.	Classification not possible.
Acute Toxicity (Dermal):	Classification not possible.	Classification not possible.
Acute Toxicity (Inhalation: dust/mist):	Classification not possible.	Classification not possible.
Acute Toxicity (Inhalation: fume/vapors):	Out of category to solids.	Out of category to solids.
Skin corrosion/irritation:	Classification not possible.	Classification not possible.
Serious eye danger/irritation:	Category 2A (Inorganic tin compound)	Category 2B
Respiratory or skin sensitization:	Classification not possible.	Classification not possible.
Germ cell mutagenicity:	Classification not possible.	Classification not possible.
Carcinogenicity:	Classification not possible.	Classification not possible.
Reproductive toxicity:	Classification not possible.	Classification not possible.
STOT single exposure:	Category 3(Respiratory) (Inorganic tin compound)	Classification not possible.
STOT repeated exposure:	Category 1(Lung) (Inorganic tin compound)	Classification not possible.
Aspiration hazard:	Classification not possible.	Classification not possible.
<b>12.ECOLOGICAL INFORMATION</b>		
Ecotoxicity:	No information.	
Persistence and degradability:	No information.	
Bioaccumulative potential:	No information.	
Mobility in soil:	No information.	
Hazardous to the ozone layer:	No information.	
Other:	No information.	
<b>13.DISPOSAL CONSIDERATIONS</b>		
Waste from residues:	Dispose of contents in accordance with local/regional/national /international regulations(to be specified).	
Contaminated container/packing:	Dispose of container in accordance with local/regional/national /international regulations(to be specified).	
<b>14.TRANSPOT INFORMATION</b>		
International regulation:		
UN code	Not applicable.	
Proper shipping name	Not applicable.	
UN Class	Not applicable.	
Packing group	Not applicable.	
Marine pollutant	Not applicable.	

## 15. REGULATORY INFORMATION

Worldwide chemical inventories:	Tin Sulfide	Ditin trisulfide	Graphite
ENCS(Japan)	1-569	1-569	Not listed
TSCA(USA)	Listed	Not listed	Listed
ECL(Korea)	KE-33873	Not listed	KE-18101
DSL(Canada)	Listed (NDSL)	Not listed	Listed (DSL)
PICCS(Philippines)	Not listed	Not listed	Listed
AICS(Australia)	Not listed	Not listed	Listed
IECSC(China)	Not listed	Not listed	Listed
NECI(Taiwan)	Listed	Not listed	Listed
Other regulatory information:	Follow regulation and law of each country or region.		

## 16. OTHER INFORMATION

Treatment of stated contents:

The contents of this information sheet are based on the data, information available at moments, and may be revised by additional data coming up in future.

The precautions mentioned in this sheet are intended for normal use of this material, when use in unusual manner, the proper safety method is required.

Read this SDS before use the ingredients.

Keep this SDS in your file for your timely reference. The contents of this information sheet are not warranted and the company can accept no liability to any customer or any other person.

References:

1. GHS taio guideline

Edit: Japan Chemical Industry Association

Issuance: Japanese Standards Association

2. 【Kaiteidai3ban】 Kinkyujioukyusochishishin

Issuance: Japanese Standards Association

3. National Institute of Technology and Evaluation (NITE)\_  
Chemical Risk Information Platform (CHRIP)

4. Shokubanoanzen site

Ministry of Health, Labour and Welfare (Japan)

5. SDS of raw material