



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Mar-2024 Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Semicarbazide Sulfate	
Product Code	196-00392	
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan	
	Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571	
Recommended uses	For research use only	
Restrictions on use	Seek expert judgment when using for purposes other than those recommended.	

## Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture Acute toxicity - Oral Serious eye damage/eye irritation **Reproductive Toxicity** Specific target organ toxicity (repeated exposure) Category 2 bone

Category 3 Category 1 Category 2 Category 2



Signal word

#### Hazard statements

- H318 Causes serious eye damage
- H301 Toxic if swallowed
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to the following organs through prolonged or repeated exposure: bone

#### **Precautionary statements-(Prevention)**

- · Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray

### Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- Immediately call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### Precautionary statements-(Storage)

Store locked up

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards

Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula

#### NH2NHCONH2·H2SO4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Semicarbazide Sulfate	99.0	173.15	2-1744, 1-430	*	101366-35-2
Note on ISHL No.: * in the table means announced chemical substances.					

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

## Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

No information available

### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions To be careful not discharged to the environment without being properly handled waste water contaminated.		
Methods and materials for contaminent and methods and materials for cleaning up Sweep up and gather scattered particles, and collect it in an empty airtight container.		
Recoverly, neutralization		
No information available		
Secondary disaster prevention r	neasures ad areas thoroughly observing environmental regulations.	
	Section 7: HANDLING AND STORAGE	
Handling		
Technical measures	zing agents. Use with local exhaust ventilation.	
Precautions	zing agents. Ose with local exhaust ventilation.	
scattering. Not to generate stea then gargle. In places other tha contaminated protective equipr handling area.	ers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and am and dust in vain. Seal the container after use. After handling, wash hands and face, and an those specified, should not be smoking or eating and drinking. Should not be brought ment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the	
Safety handling precautions		
	r clothing. Use personal protective equipment as required.	
Storage Safe storage conditions		
Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).	
5	Keep container tightly closed.	
Safe packaging material	Polyethylene	
Incompatible substances	Strong oxidizing agents	
Section 8:	Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
Engineering controls	eal the source or use a local exhaust system. Provide the safety shower facility, and hand-	

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

**Exposure limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment	
Respiratory protection	Dust mask ( JIS T 8151 )
Hand protection	chemical protective gloves (JIS T 8116)
Eye protection	protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection	Long-sleeved work clothes
General hygiene considerations	

Handle in accordance with good industrial hygiene and safety practice. If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range

White - nearly white crystals - crystalline powder no data available 143 °C no data available Flammability **Evaporation rate:** Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) **Dynamic viscosity** Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics** 

no data available 1 (50g/L, 25°C) no data available no data available water : soluble . no data available no data available

no data available no data available

# Section 10: STABILITY AND REACTIVITY

#### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

# Section 11: TOXICOLOGICAL INFORMATION

Acute	toxicity
//04/0	CONIDICY

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

# Section 13: DISPOSAL CONSIDERATIONS

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Contaminated container and contaminated packaging** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

## ADR/RID

ADR/RID	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Semicarbazide Sulfate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	11
Marine pollutant	Not applicable
IMDG	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Semicarbazide Sulfate)
UN classification	6.1
Subsidiary hazard class	0.1
-	Ш
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Semicarbazide Sulfate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous	Not applicable
Substance	
ounstance	

# Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Not applicable
Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air
	Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer Register Law	Not applicable

(2023.4.1-) Export Trade Control Order Not applicable

	Section 16: OTHER INFORMATION
Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions Disclaimer	The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet