



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 25-Mar-2024 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ammonium Sulfide Solution, Yellow	
Product Code	018-03466	
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 <u>Classification of the substance or mixture</u> Skin corrosion/irritation Acute aquatic toxicity

Pictograms



Category 1

Category 1



Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

H400 - Very toxic to aquatic life

Precautionary statements-(Prevention)

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid release to the environment

Precautionary statements-(Response)

• 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Collect spillage

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 Mixture

Formula	
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(NH4)2Sx

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	=<75	18.02	-	-	7732-18-5
Ammonium Sulfide	=>5 (as S)	68.14	(1)-408	公表	12135-76-1
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment **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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

 Storage conditions
 Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

 Safe packaging material Incompatible substances
 Glass

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

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
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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
Hand protection
Eye protection
Skin and body protectionProtective mask
chemical protective gloves (JIS T 8116)
protective eyeglasses or chemical safety goggles (JIS T 8147)
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 Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

yellow - yellow brown clear liquid characteristic odor no data available no data available no data available no data available

Flammability (solid, gas): Upper/lower flammability or explosive limits	no data available
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH	Strongly basic
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water : at the rate of any miscible . Ethanol : soluble . Diethyl
	ether : insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	0.99g/ml (20°C)
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended normal conditions.

 Hazardous reactions
 Stable under recommended normal conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight
 Incompatible materials

 Strong oxidizing agents
 Hazardous decomposition products

 Sulfur oxides (SOx), Nitrogen oxides (NOx)
 Nox

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

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

UN number	UN2818
Proper shipping name:	Ammonium polysulphide solution
UN classfication	8
Subsidiary hazard class	6.1
Packing group	II
Marine pollutant	Yes
IMDG	
UN number	UN2818
Proper shipping name:	Ammonium polysulphide solution
UN classfication	8
Subsidiary hazard class	6.1
Packing group	II
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2818
Proper shipping name:	Ammonium polysulphide solution
UN classfication	8
Subsidiary hazard class	6.1
Packing group	II
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	t 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	Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of
	Explosives etc., Attached Table 1)
Pollutant Release and Transfer	Not applicable
Register Law	
(2023.4.1-)	
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Export Trade Control Order Not ap

Wastewater Standards Art.1) 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	The following contents were revised. Regulatory information.

Disclaimer 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