



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 25-Mar-2024 Revision Number 2.04

Category 1

Category 1 Category 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	50% Ammonium Hydrogensulfite Solution
Product Code	014-02905
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 Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only 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> Corrosive to metals Skin corrosion/irritation Serious eye damage/eye irritation

Pictograms



Signal word

Danger

Hazard statements

H290 - May be corrosive to metals

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

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
- Keep only in original container
- 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
 - Absorb spillage to prevent material damage

Precautionary statements-(Storage)

Store locked up

 Store in corrosive resistant/ container with a resistant inner liner 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

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ammonium Hydrogen Sulfite	45.0-55.0	99.11	(1)-399	1-(3)-8,1-(3)-108	10192-30-0
water	45.0-55.0	18.02	-	9-3873	7732-18-5
Note on ISHL No.:	* in the	table means annour	ced chemical substa	ances.	

in the table means announced chemical substances.

Substances Remarks:

The composition considered to be hazardous are listed in the above. The remaining ingredients are not hazardous substances, or exist at below reportable level.

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.

Eve 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	
Use with local exhaust ventilation Precautions Do not rough handling contained scattering. Not to generate steat then gargle. In places other that contaminated protective equipted handling area. Safety handling precautions	zing agents. Avoid contact with metal. Avoid contact with acidic and alkaline substances. ion. 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 pr clothing. Use personal protective equipment as required.	
Storage Safe storage conditions Storage conditions Safe packaging material Incompatible substances	Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass Strong oxidizing agents, Metals, Acidic substances, alkaline substances	
Engineering controls	EXPOSURE CONTROLS/PERSONAL PROTECTION	
and eye-wash facility. And disp		

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	Gas mask for acidic gas (JIS T 8152)	
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 Turbidity Appearance Odor

Colorless - yellow clear liquid no data available Melting point/freezing point no data available Boiling point, initial boiling point and boiling range 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 acidic no data available no data available water : Very soluble. no data available no data available 1.26-1.29g/mL no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity **Chemical stability**

no data available Decomposed on heating.

Hazardous reactions

reacts with strong acids, to generate harmful sulfur dioxide gas. reacts with strong bases, to generate harmful ammonia gas. Reacts with acids to generate hydrogen gas.

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents, Metals, Acidic substances, alkaline substances

Hazardous decomposition products

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

Section 11: TOXICOLOGICAL INFORMATION

Acute	toxicity

Skin irritation/corrosion Serious eve 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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Other data

no data available

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2693 Bisulphites, aqueous solution, n.o.s. (Ammonium Hydrogen Sulfite) 8 III Not applicable
IMDG	
UN number	UN2693
Proper shipping name:	Bisulphites, aqueous solution, n.o.s. (Ammonium Hydrogen Sulfite)
UN classfication	8
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and	No information available
the IBC Code	
IATA	
UN number	UN2693
Proper shipping name:	Bisulphites, aqueous solution, n.o.s. (Ammonium Hydrogen Sulfite)
UN classfication	8
Subsidiary hazard class	
Packing group	
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations_	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	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
	Wastewater Standards Art.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	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