



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 15-Feb-2024 Revision Number 7.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Cupferron
Product Code 034-04901,032-04902,036-04905	
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> Flammable solids Acute toxicity - Oral Carcinogenicity Specific target organ toxicity (repeated exposure) Category 2 liver

Category 2 Category 3 Category 1B Category 2

Pictograms



Hazard statements

- H228 Flammable solid
- H301 Toxic if swallowed
- H350 May cause cancer

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver

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
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

- · In case of fire: Use suitable extinguishing media for extinction
- 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

C6H9N3O2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ammonium	=<100	155.16	(9)-2320, (3)-2750	*	135-20-6
N-nitrosophenylhydroxyl					
amine					
Ammonium carbonate	-	96.08	(1)-141	*	506-87-6
Note on ISHL No.:	* in the table means announced chemical substances.				

Note on ISHL No .:

Impurities and/or Additives:

Stabilizer: Ammonium Carbonate

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 Water, Foam Unsuitable extinguishing media Powder, Carbondioxide 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 measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Do not give shock. 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store with ammonium carbonate in separate packaging. Safe packaging material Polyethylene Incompatible substances Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Eye protection

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) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes Skin and body protection

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 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**

White - slight yellowish brown crystals - crystalline powder characteristic odor 163 °C no data available Flammable solid no data available 150 - 155 °C no data available no data available no data available water : freely soluble . Ethanol : sparingly soluble . no data available no data available no data available no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light. This product is degradable and should be stored in an ammonia atmosphere.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 CO2), Nitrogen oxides (NOx), Ammonia

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium	199 mg/kg(Rat)	N/A	N/A
N-nitrosophenylhydroxylamine			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name

Skin corrosion/irritation source information

Ammonium N-nitrosophenylhydroxylamine	Based on the NITE GHS classification results.		
Serious eye damage/ irritation			
Chemical Name Serious eye damage/irritation source info			
Ammonium N-nitrosophenylhydroxylamine	Based on the NITE GHS classification results.		
Respiratory or skin sensitization			
Chemical Name	Respiratory or Skin sensitization source information		
Ammonium N-nitrosophenylhydroxylamine	Based on the NITE GHS classification results.		
Reproductive cell mutagenicity			
Chemical Name	germ cell mutagencity source information		
Ammonium N-nitrosophenylhydroxylamine	Reverse mutation assay in S.typhimurium and E.coli Negative		
Carcinogenicity			
Chemical Name	Carcinogenicity source information		
Ammonium N-nitrosophenylhydroxylamine	Based on the NITE GHS classification results.		

Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Ammonium N-nitrosophenylhydroxylamine	Reasonably		Group 2B		
135-20-6	Anticipated				
Reproductive toxicity					
Chemical Name		Reproductive toxicity source information			
Ammonium N-nitrosophenylhydroxylamine		Bas	sed on the NITE GH	IS classification res	sults.
STOT-single exposure					
Chemical Name		STOT -single exposure- source information			
Ammonium N-nitrosophenylhydroxylamine		Based on the NITE GHS classification results.			
STOT-repeated exposure					
Chemical Name			STOT -repeat	ed exposure- sou	ce information
Ammonium N-nitrosophenylhydroxylamine		Based on the NITE GHS classification results.			
Aspiration hazard					
Chemical Name			Aspiratio	n Hazard source i	nformation
Ammonium N-nitrosophenylhydroxylamine		Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data		
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Ammonium N-nitrosophenylhydroxylamine	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

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	UN2926 Flammable solid, toxic, organic, n.o.s. (Ammonium N-nitrosophenylhydroxylamine) 4.1 6.1 III Not applicable
IMDG	
UN number	UN2926
Proper shipping name:	Flammable solid, toxic, organic, n.o.s. (Ammonium N-nitrosophenylhydroxylamine)
UN classfication	4.1
Subsidiary hazard class	6.1
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
UN number	UN2926
Proper shipping name:	Flammable solid, toxic, organic, n.o.s. (Ammonium N-nitrosophenylhydroxylamine)
UN classfication	4.1
Subsidiary hazard class	6.1
Packing group	
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations				
Fire Service Act	Category V, nitroso com pour	nds, dangerous grade 2		
Poisonous and Deleterious	Not applicable			
Substances Control Law				
Industrial Safety and Health Ac	t Not applicable			
Industrial Safety and Health Act ([2024.4.1~] Harmful Substand	ces Whose Names Are to be Indic	ated on the Label (Law Art.57)	
<u>2024~)</u>	[2024.4.1~] Notifiable Substa	nces (Law Art.57-2)		
	[2024.4.1~] Substances desig	nated by the Minister of Health, L	abor and Welfare as	
	carcinogenic(Ordinance on Indu	strial Safety and Health Art.577, P	ara.2)	
Regulations for the carriage	Flammable Solids - Flammal	Flammable Solids - Flammable Solids (Ordinance Art.3, Ministry of Transportation		
and storage of dangerous	Ordinance Regarding Transp	port by Ship and Storage, Atta	ched Table 1)	
goods in ship				
Civil Aeronautics Law	Flammable Solids (Ordinance Art. 194, MITL Nortification for Air Transportation of			
	Explosives etc., Attached Ta	ble 1)		
Pollutant Release and Transfer	r Not applicable			
Register Law				
(2023.4.1-)				
Water Pollution Control Act	Harmful Substances (Law A	rt.2, Enforcement Order Art.2,	Ordinace Designating	
	Wastewater Standards Art.1)		
Export Trade Control Order	Not applicable			
	Industrial Safety an	d Health Law	-	
Law Name	Chemical Name in Regulation	Weight %		
Notifiable Substances (Law Art.57-2)	N-nitrosophenylhydroxylamine ammonium salt	=<100	2024/4/1	

Section 16: OTHER INFORMATION

Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)
sources for data etc.	http://www.safe.nite.go.jp/japan/db.html
sources for data etc.	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. Composition/information on ingredients. Handling and storage. 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