



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Feb-2023

Revision Number 1.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Potas	sium Nitrite
Product Code 165-2	7322,169-27325

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964
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 and

Recommended uses and restrictions on use

+81-6-6203-3741 / +81-3-3270-8571

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Oxidizing solids Category 2

Reproductive Toxicity Category 2 (additional)

Specific target organ toxicity (single exposure)

Category 1

Category 1 blood
Acute aquatic toxicity Category 2
Chronic aquatic toxicity Category 2

Pictograms

Supplier





Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer

H361 - Suspected of damaging fertility or the unborn child

H362 - May cause harm to breast-fed children

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects H370 - Causes damage to the following organs: blood

Precautionary statements-(Prevention)

- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep/Store away from clothing/ combustible materials
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Avoid release to the environment
- · Take any precaution to avoid mixing with combustibles

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- · Wash contaminated clothing before reuse
- · 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 Substance

Formula KNO2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Potassium Nitrite	85.0	85.10	(1)-823	*	7758-09-0

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

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

Flood with water

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 measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Flammable. Do not give shock. Avoid contact with organic substance Avoid contact with reducing agents and combustible materials. 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, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed. Store locked up.

Safe packaging material

Incompatible substances

Polyethylene
Organic substance, Combustible materials, Reducing agent

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 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 Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

ColorWhite - slightly yellowAppearancecrystals - crystalline powder

Odor no data available

Melting point/freezing point 350 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
pecomposition temperature:
no data available
ph
basic (aq.)
Viscosity (coefficient of viscosity)
no data available

Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities water : freely soluble . Ethanol : slightly soluble .

n-Octanol/water partition coefficient:(log Pow) no data available no data available

Specific Gravity / Relative density 1.915

Vapour densityno data availableParticle characteristicsno data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability May be altered by light. This material is deliquescent.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Organic substance, Combustible materials, Reducing agent

Hazardous decomposition products

Nitrogen oxides (NOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Nitrite	200 mg/kg (Rabbit)	N/A	N/A

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

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

Skin irritation/corrosion

	Chemical Name	Skin corrosion/irritation source information
	Potassium Nitrite	Based on the NITE GHS classification results.
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Serious eye damage/ irritation

Chemical Name	Chemical Name		Serious eye damage/irritation source information		
Potassium Nitrite	Potassium Nitrite		Based on the NITE GHS classification results.		
Respiratory or skin sensitization					
Chemical Name		Respiratory or Ski	in sensitization s	source information	
Potassium Nitrite		Based on the NITE GHS	S classification re	sults.	
Reproductive cell mutagenicity					
Chemical Name		germ cell mu	itagencity sourc	e information	
Potassium Nitrite		Based on the NITE GHS	S classification re	sults.	
Carcinogenicity		·			
Chemical Name		Carcinog	enicity source in	formation	
Potassium Nitrite		Based on the NITE GHS classification results.			
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
Potassium Nitrite		Group 2A			
7758-09-0					
Reproductive toxicity					
Chemical Name		Reproductiv	e toxicity source	information	
Potassium Nitrite		Based on the NITE GHS classification results.			
STOT-single exposure					
Chemical Name		STOT -single	exposure- source	ce information	
Potassium Nitrite		Based on the NITE GHS	S classification re	sults.	

STOT-repeated exposure

Chemical Name STOT -repeated exposure- source information

Based on the NITE GHS classification results.

Asniration hazard

Topilation nazara				
Chemical Name	Aspiration Hazard source information			
Potassium Nitrite	Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium Nitrite	N/A	LC50: Rainbow trout	N/A
		0.56 - 1.78 mg NO2-/L 96 h	

Other data

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	Chemical Name	Short-term (acute) hazardous to the aquatic environment source	Long-term (chronic) hazardous to the aquatic environment source	
- 1		aquatic environment source	aquatic environment source	
		information	information	
I	Potassium Nitrite	Based on the NITE GHS classification	Based on the NITE GHS classification	
		results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Potassium Nitrite

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 UN1488

Proper shipping name: Potassium nitrite

UN classfication 5.1

Subsidiary hazard class

Packing group II Marine pollutant Yes

IMDG

UN number UN1488

Proper shipping name: Potassium nitrite

UN classfication 5.1

Subsidiary hazard class

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

IATA

UN number UN1488

Proper shipping name: Potassium nitrite

UN classfication 5.1

Subsidiary hazard class

Packing group II Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Category I, oxides of nitrites, dangerous grade 1

Poisonous and Deleterious Deleterious Substances 3rd. Grade

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation

and storage of dangerous Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

Civil Aeronautics Law Oxidizing Agents - Oxidizing Agents (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (~2023.3.31)

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

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Potassium Nitrite 7758-09-0 (85.0)	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

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet