



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 19-May-2023

Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Nitrate
Product Code	198-02557,192-02555
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
Supplier	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964 FUJIFILM Wako Pure Chemical Corporation
Emergency telephone number Recommended uses	1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only

Section 2: HAZARDS IDENTIFICATION

Seek expert judgment when using for purposes other than those recommended.

GHS classification

Restrictions on use

Classification of the substance or mixture

Oxidizing solidsCategory 3Serious eye damage/eye irritationCategory 2BGerm cell mutagenicityCategory 2Specific target organ toxicity (single exposure)Category 1

Category 1 blood

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 blood







Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer

H320 - Causes eye irritation

H341 - Suspected of causing genetic defects

H370 - Causes damage to the following organs: blood

H372 - Causes damage to the following organs through prolonged or repeated exposure: blood

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 breathe dust/fume/gas/mist/vapors/spray

- Do not eat, drink or smoke when using this product
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

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 NaNO3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium nitrate	98.0	84.99	(1)-484	*	7631-99-4

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

Powder, Foam

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. Flammable. 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

Safe packaging material

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 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Polyethylene, Polypropylene

Incompatible substances 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 (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

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

Color white

Appearance crystals - crystalline powder

Odorless Odor Melting point/freezing point

306 °C 380 °C (dec.) Boiling point, initial boiling point and boiling range no data available **Flammability Evaporation** rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

no data available Upper: no data available Lower: Flash point no data available no data available **Auto-ignition temperature: Decomposition temperature:** no data available рΗ 5.0 - 8.0(50g/L,25 °C)

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

Solubilities water: free soluble. Ethanol: slightly soluble.

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

Specific Gravity / Relative density 2.26

no data available Vapour density no data available **Particle characteristics**

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Organic substance, Combustible materials, Reducing agent

Hazardous decomposition products

Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nitrate	1267 mg/kg (Rat)	N/A	N/A

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

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

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Sodium nitrate	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Chemical Name	Serious eye damage/irritation source information

Sodium nitrate	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Sodium nitrate	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Sodium nitrate	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Sodium nitrate	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Sodium nitrate		Group 2A		
7631-99-4		·		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Sodium nitrate	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Sodium nitrate	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name		STOT -repeated exposure- source information	
	Sodium nitrate	Based on the NITE GHS classification results.	

Aspiration hazard

Adplication nazura				
Chemical Name	Aspiration Hazard source information			
Sodium nitrate	Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium nitrate	N/A	LC50:Oncorhynchus mykiss	N/A
		994.4 - 1107 mg/L 96 h	
		LC50:Lepomis macrochirus	
		2000 mg/L 96 h	

Other data

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

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

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 UN1498 Proper shipping name: Sodium nitrate

UN classfication 5 1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1498 Proper shipping name: Sodium nitrate

UN classfication

Subsidiary hazard class Packing group

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Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1498 Sodium nitrate Proper shipping name:

UN classfication 5.1

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed **TSCA** Listed

Japanese regulations

Fire Service Act Category I, nitrates, dangerous grade 3

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Dangerous Substances - Oxidizing Substance (Enforcement Order Attached Table 1

Regulations for the carriage

and storage of dangerous

goods in ship

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation

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

Civil Aeronautics Law

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

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

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. Prodauct and company Identification. Exposure controls/personal protection. 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