

Hayashi Pure Chemical Ind.,Ltd. Revision date: 4/23/2024

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SDS code: C4-13F Version: 10

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Sodium nitrite C4-13F
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.j	oma pc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number Recommended use Restrictions on use	: : :	06-6910-7305 Food additive. Comply the Food Sanitation Act when using.

2. Hazards identification

GHS classification

one classification		
Physical hazards	Desensitized explosives	classification not possible
	Explosives	No classification
	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	No classification
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	No classification
	Substances and mixtures which in contact with water emit flammable gases	No classification
	Oxidizing liquids	No classification
	Oxidizing solids	Category 3
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
Health hazards	Acute toxicity (oral)	Category 3
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	No classification
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	Category 2A
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	Category 2
	Carcinogenicity	classification not possible
	Reproductive toxicity	Category 2
	Reproductive toxicity (effects on or via lactation)	Additional category
	Specific target organ toxicity (single exposure)	Category 1 (blood)

Environmental hazards Hazard pictograms (GHS JP)	Specific target of (repeated expose Aspiration hazard Hazardous to the environment, sho Hazardous to the environment, lon Hazardous to the	ure) d e aquatic port-term (acute) e aquatic ug-term (chronic)	Category 2 (blood) classification not per Category 1 Category 1 classification not per	
	\checkmark			
	GHS03	GHS06 GF	IS08 GHS09	
Signal word (GHS JP) :	Danger		
Hazard statements (C	GHS JP) :	Suspected of cau Suspected of dar May cause harm Causes damage May cause dama exposure (H373)	d (H301) ye irritation (H319) sing genetic defects naging fertility or the to breast-fed children to organs (blood) (H3	unborn child (H361) n (H362) 370) through prolonged or repeated
Precautionary statem	ents (GHS JP)			
Prevention	:	Do not handle un (P202) Keep away from sources. No smol Keep away from Do not breathe du Avoid contact dur Wash hands, fore Do not eat, drink Avoid release to the Wear protective of (P280)	heat, hot surfaces, sp king. (P210) clothing and other co ust/fume/gas/mist/vaj ing pregnancy and w earms and face thoro or smoke when using the environment. (P2 gloves/protective clot	ons have been read and understood. barks, open flames and other ignition mbustible materials. (P220) pors/spray. (P260) /hile nursing. (P263) ughly after handling. (P264) g this product. (P270) 73) hing/eye protection/face protection.
Response	:	(P301+P310) IF IN EYES: Rins contact lenses, if (P305+P351+P33 IF exposed or con (P308+P311) Get medical advic Rinse mouth. (P3 If eye irritation pe	e cautiously with wat present and easy to 38) ncerned: Call a POIS ce/attention if you fee 30) rsists: Get medical a se specify appropriat	POISON CENTER or doctor. ter for several minutes. Remove do. Continue rinsing. PON CENTER or doctor. el unwell. (P314) dvice/attention. (P337+P313) e media to extinguish. (P370+P378)
Storage	:	Store locked up.	-	
Disposal	:		nce with local, region	rdous or special waste collection al, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornula	CSCL no	ISHL no	
Sodium nitrite	≧97.0%, ≦100%	NaNO2	(1)-483	Existing Chemical Substance	7632-00-0

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
		Get immediate medical advice/attention.
First-aid measures after skin	:	Remove/Take off immediately all contaminated clothing.
contact		Gently wash with plenty of soap and water.
		Get immediate medical advice/attention.
First-aid measures after eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Get immediate medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Water spray
Unsuitable extinguishing media	:	Foam, Dry powder, Do not use a heavy water stream.
Fire hazard	:	May intensify fire; oxidizer.
Explosion hazard	:	May induce explosion of containers by heating.
Hazardous decomposition products in case of fire	:	In case of fire, product may produce irritative or toxic fumes/gases.
Firefighting instructions	:	If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.
		In the case of peripheral fire, quickly remove movable containers to safe places.
		If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.
		Even after extinguishing fire, thoroughly cool containers by using plenty of water.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures		
General measures :	Before entering, ventilate the area.	
	Do not let unauthorized persons come close to the area.	
	Immediately place the leakage area in isolation, with taking proper distances for all directions.	
	Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.	
Environmental precautions		
Environmental precautions :	Avoid release to the environment.	
	Prevent entry to sewers and public waters.	
Methods and Equipment for Containm	nent and Cleaning up	
Methods for cleaning up :	Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place.	
	Wash out the spilled area with large amounts of water.	

7. Handling and storage

Handling		
Technical measures	:	Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.
		Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.
Precautions for safe handling	:	Do not eat, drink or smoke when using this product.
		Thoroughly wash your hands and gargle after handling.
		Ensure good ventilation of the work station.
		Do not contact, breathe or swallow.
Prevents handling of incompatible substances or mixtures	:	Avoid prolonged or repeated exposure.
Storage		
Storage conditions	:	Store locked up.
		Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.
Material used in packaging/containers	:	Airtight container.
Technical measures	:	Comply with applicable regulations.
Storage temperature	:	Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.
Protective equipment	
Respiratory protection	: Dustproof mask
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Appearance:Crystalline powderColor:white ~ very pale yellowOdor:Odorless	
Odor : Odorless	
pH : Weak base (as aqueous solution)	
Melting point : 270 °C	
Freezing point : No data available	
Boiling point : No data available	
Flash point : No data available	
Auto-ignition temperature : No data available	
Decomposition temperature : 320 °C	
Flammability : No data available	
Vapor pressure : No data available	
Relative density : No data available	
Density : 2.2 g/cm ³	
Relative gas density : No data available	
Solubility : Soluble in water. Slightly soluble in alcohol. Slightly soluble in diethyl ether	∍r.
Partition coefficient n- : No data available octanol/water (Log Pow)	
Explosive limits (vol %) : No data available	
Viscosity, kinematic : No data available	
Particle characteristics : No data available	

10. Stability and reactivity

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Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions. Hygroscopicity. Deliquesce in moist air or water spray.
Possibility of hazardous reactions	:	Being a strong oxidizing agent, reacts with combustible substances and reducing substances, posing fire and explosion hazard. Decomposes on heating or on contact with acids producing toxic fumes (nitrogen oxides). Reacts with aluminium, ammonium compounds and amines.
Conditions to avoid	:	Sunlight, moisture, heat. Contact with combustible substances, reducing substances and acids.
Incompatible materials	:	Combustible substances, Reducing substances, Acids
Hazardous decomposition products	:	Nitrogen oxides

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Sodium nitrite	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	Category 2
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 1
STOT-repeated exposure	Category 2
Aspiration hazard	classification not possible

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Sodium nitrite		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
Hazardous to Aquatic Environment - Chronic Hazard	Category 1	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials	:	With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
Contaminated container and	:	Empty the packaging completely prior to disposal.
packaging		Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)	
UN-No. (IMDG)	: 1500
Proper Shipping Name (IMDG)	: SODIUM NITRITE
Packing group (IMDG)	:
Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 5.1 (6.1) : 5.1,6.1
Class (IMDG)	: 5.1
Subsidiary hazard (IMDG)	: 6.1
Division (IMDG)	: 5.1
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG) Packing instructions (IMDG)	: E1 : P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless deliquescent solid. Soluble in water. Mixtures with
	combustible material are readily ignited and may burn fiercely. Mixtures
	with ammonium compounds or cyanides may explode. Decomposes if
	heated, giving off toxic nitrous fumes and gases supporting combustion.
MFAG-No	Harmful if swallowed or by dust inhalation. : 140
	. 140
Air transport(IATA)	
UN-No. (IATA)	: 1500
Proper Shipping Name (IATA)	: Sodium nitrite : III
Packing group (IATA) Transport hazard class(es) (IATA)	: 5.1 (6.1)
Hazard labels (IATA)	: 5.1, 6.1
Class (IATA)	: 5.1
Subsidiary hazards (IATA)	: 6.1
Division (IATA)	: 5.1
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net	: 10kg
quantity (IATA)	C C
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
Special provision (IATA) ERG code (IATA)	: A803 : 5P
Marine pollutant	: Applicable
Regulations in Japan	
Regulatory information by sea	: Conform to the provisions of the Ship Safety Law.
Regulatory information by air	: Conform to the provisions of the Civil Aeronautics Law.
MFAG-No Special transport precautions	 : 140 : When transporting, load containers so that they do not tip over,
Special transport precautions	damage, drop or collapse. Make sure there is no leak in containers.
15. Regulatory information	
National law	
Industrial Safety and Health Law	: [Date of enforcement: April 1, 2025]
	Dangerous or Harmful Substances for Labeling of Chemical Name
	etc. (Act Art.57 Para.1, Enforcement Order, Art.18)
	Dangerous or Harmful Substances for Notification of Chemical Name
	etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2)
	Sodium nitrite

Japanese Poisonous and
Deleterious Substances Control Law:Deleterious Substances (Designated Order Art.2)
NitritesWater Pollution Prevention Law:Hazardous Substances (Act, Art.2, Enforcement Order Art.2,
Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law	:	Group 1 - Oxidizing solids - Nitrites (Law Art.2 Para.7 Attached Table 1, Group 1 Para.10, Cabinet Order on Hazardous Materials Art.1)
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Ship Safety Act	:	Oxidizing substances and organic peroxides/Oxidizing substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Oxidizing substances and organic peroxides/Oxidizing substances (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Port Regulation Law	:	Oxidizing substances and organic peroxides/Oxidizing substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Waterworks Law	:	Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable

16. Other information

Data sources	 Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
Other information	: The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.