

0.5mol/L(N/2) Sodium nitrite solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: ZA-08

Version: 03

Safety Data Sheet

1. Chemical product and company identification

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Product name	:	0.5mol/L(N/2) Sodium nitrite solution
SDS code	:	ZA-08
Company/undertaking identification HAYASHI PURE CHEMICA Address : 3-2-12 Uchihirar Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@ł URL : https://www.hpc-j.co	ioma npc-j	achi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible
	Flammable gases	No classification
	Aerosol	classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	classification not possible
	Flammable solids	No classification
	Self-reactive substances and mixtures	classification not possible
	Pyrophoric liquids	classification not possible
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	classification not possible
	Oxidizing liquids	Category 3
	Oxidizing solids	No classification
	Organic peroxides	classification not possible
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	No classification
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	No classification
	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	org	an toxicity (single	Category 2 (blood)
	Specific target organ toxicity (repeated exposure)			No classification
	Aspiration haza			classification not possible
Environmental hazards	Hazardous to the	he		Category 2
nazalus	environment, sl Hazardous to th	he	aquatic	Category 2
	environment, lo	-		alognification not possible
	Hazardous to the	ne	020ne layer	classification not possible
Hazard pictograms (GHS JP)	(b)			73
	GHS03	G	HS08 GH	1509
Signal word (GHS JP)	:	Warning	
Hazard statements (G	SHS JP)	:	Suspected of dan May cause harm May cause dama	oxidizer (H272) sing genetic defects (H341) naging fertility or the unborn child (H361) to breast-fed children (H362) ge to organs (blood) (H371) fe with long lasting effects (H411)
Precautionary statem	ents (GHS JP)			
Prevention		:	Do not handle un (P202) Keep away from I sources. No smol Keep away from 0 Do not breathe du Avoid contact dur Wash hands, fore Do not eat, drink Avoid release to t	structions before use. (P201) til all safety precautions have been read and understood. heat, hot surfaces, sparks, open flames and other ignition king. (P210) clothing and other combustible materials. (P220) ust/fume/gas/mist/vapors/spray. (P260) ing pregnancy and while nursing. (P263) earms and face thoroughly after handling. (P264) or smoke when using this product. (P270) he environment. (P273) ploves/protective clothing/eye protection/face protection.
Response		:	(P308+P311)	ncerned: Call a POISON CENTER or doctor. se specify appropriate media to extinguish. (P370+P378) P391)
Storage		:	Store locked up.	(P405)
Disposal		:		nts/container to hazardous or special waste collection nce with local, regional, national and/or international)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN		
Name	Concentration range	i onnula	CSCL no	ISHL no	ono nit	
Sodium nitrite	About 3.5%	NaNO2	(1)-483	Existing Chemical Substance	7632-00-0	
Water	About 96.5%	H2O	-	-	7732-18-5	

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
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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 :	Clean up any spills as soon as possible, using an absorbent material to collect it.
	Collect leaking and spilled liquid in sealable containers as far as possible.
	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	: Gas 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

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Physical state	: Liquid
Appearance	: Liquid
Color	: colorless ~ pale yellow
Odor	: Odorless
рН	: 7.2 (25°C)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Density	: 1.02 g/cm ³ (20°C)
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n- octanol/water (Log Pow)	: No data available
Explosive limits (vol %)	: No data available
Viscosity, kinematic	: No data available
Particle characteristics	: No data available

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	Reacts with strong acids, strong reducing agents, combustible substances, aluminium, ammonium compounds and amines.
Conditions to avoid	:	Sunlight, heat. Contacts with strong acids, strong reducing agents, combustible substances, aluminium, ammonium compounds and amines.

Incompatible materials : Hazardous decomposition :

Strong acids, Strong reducing agents, Combustible substances, Aluminium, Ammonium compounds, Amines Nitrogen oxides

products

11. Toxicological information

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

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STOT-repeated exposure No classification					
	<u> </u>				
Aspiration hazard No classification					
	Aspiration hazard	No classification			

12. Ecological information

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

As a product				
Hazardous to the aquatic environment, short-term (acute)	Category 2			
Hazardous to the aquatic environment, long-term (chronic)	Category 2			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
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			
Water				
Hazardous to Aquatic Environment - Acute Hazard	No classification			
Hazardous to Aquatic Environment - Chronic Hazard	No classification			
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 packaging	:	Empty the packaging completely prior to disposal. 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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG) Class (IMDG)	 3219 NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S. III 5.1 5.1 5.1 5.1
Division (IMDG) Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) Stowage category (IMDG) Properties and observations (IMDG)	 5.1 223, 274, 900 5 L E1 P504 IBC02 T4 TP1 B When involved in a fire, may cause an explosion. Leakage and subsequent evaporation of the water of the solutions may present increased dangers as follows: 1. in contact with combustible material (particularly with fibrous material such as jute, cotton or sisal) or sulphur, danger of spontaneous combustion; 2. in contact with ammonium compounds, powdered metals or oils, danger of explosion. Transport of ammonium nitrites, aqueous solution is prohibited.
	e /s

MFAG-No	: 140
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA)	 3219 Nitrites, inorganic, aqueous solution, n.o.s. III 5.1 5.1 5.1
Division (IATA) PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA)	 5.1 E1 Y541 1L 551 2.5L
CAO packing instructions (IATA) CAO max net quantity (IATA) Special provision (IATA) ERG code (IATA)	: 555 : 30L : A3, A33, A803 : 5L
Marine pollutant	: Applicable
Regulations in Japan Regulatory information by sea Regulatory information by air MFAG-No Special transport precautions	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 140 When transporting, load containers so that they do not tip over, 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	: Not applicable
Water Pollution Prevention Law	: Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)
Fire Service Law	: Not applicable
Law Relating to Prevention of Marine Pollution and Maritime Disasters	: Noxious Liquid Substances - Category Y (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 2)
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)
	: Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
Waterworks Law	

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). :

Other information

2020 Emergency Response Guidebook (ERG 2020).

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