

10W/V% Sodium nitrite solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/25/2008 Revision date: 5/14/2020 SDS code: N3-08 Version: 08.1

Safety Data Sheet

1. Chemical product and company identification

10W/V% Sodium nitrite solution **Product name**

SDS code N3-08

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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URL: http://www.hpc-j.co.jp/

Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards Desensitized eplosives classification not possible

classification not possible **Explosives**

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 classification not possible

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in classification not possible

contact with water emit flammable

gases

Oxidizing liquids Category 3 Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible

Health hazards Acute toxicity (oral) Category 4

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapours) 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 Additional category

via lactation)

Specific target organ toxicity (single

exposure)

Category 2 (blood)

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Specific target organ toxicity

(repeated exposure)

No classification

Aspiration hazard

classification not possible Aquatic acute Category 2

Environmental hazards

> Aquatic chronic Category 2

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07





Signal word (GHS JP) Warning

Hazard statements (GHS JP) May intensify fire; oxidizer (H272)

Harmful if swallowed (H302)

Suspected of causing genetic defects (H341)

Suspected of damaging fertility or the unborn child (H361)

May cause harm to breast-fed children (H362) May cause damage to organs (blood) (H371) Toxic to aquatic life with long lasting effects (H411)

Precautionary statements (GHS JP)

Prevention Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Keep away from clothing and other combustible materials. (P220)

Do not breathe dust/fume/gas/mist/vapours/spray. (P260) Avoid contact during pregnancy and while nursing. (P263)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Rinse mouth. (P330)

In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Collect spillage. (P391)

Storage Store locked up. (P405)

Dispose of contents/container to hazardous or special waste collection Disposal

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture

	Concentration or Concentration range	Formula	Kanpo number		040 511
Name			CSCL no	ISHL no	CAS RN
Sodium nitrite	9.0-11.0%	NaNO2	(1)-483	Existing Chemical Substance	7632-00-0
Water	89.0-91.0%	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 mass%, unless otherwise specified.

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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

contact

Remove/Take off immediately all contaminated clothing.

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

Unsuitable extinguishing media

Foam, Carbon dioxide (CO2), Do not use a heavy water stream.

Fire hazard : This product is unburnable.

May intensify fire; oxidizer.

Explosion hazard : May induce explosion of containers by heating.

Water spray

Hazardous decomposition products

in case of fire

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

in case of fire, product may produce initative of toxic furnes/gases.

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 Containment 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.

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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 : Protective 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, Protective long boots

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : pale yellow
Odor : Odorless
pH : 7.8 (25°C)

Melting point No data available Freezing point No data available No data available Boiling point Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Specific gravity / density 1.06 g/cm³ (20°C) Relative gas density No data available Solubility No data available 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

Reactivity : No information available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : When heated, degrades and generates nitrogen oxide. Reacts with

moisture, strong acids, strong reducing substances, aluminium, ammonium

compounds and amine.

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Conditions to avoid : Sunlight, heat, moisture. Contact with strong acids and strong reducing

substances, aluminium, ammonium compounds and amine.

Incompatible materials : Strong acids, Strong reducing substances, Aluminium, Ammonium

compounds, Amine

Hazardous decomposition

products

: Nitrogen oxide

11. Toxicological information

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

As a product	TOTI THE GHS Classification Results by NITE.
Acute toxicity (oral)	Category 4
Acute toxicity (drail) Acute toxicity (dermal)	classification not possible
Acute toxicity (definal) Acute toxicity (inhalation)	Vapours:classification not possible
riodio toxiony (ilitialation)	Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/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
STOT-single exposure	Category 2
STOT-repeated exposure	No classification
Aspiration hazard	classification not possible
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
Water	i i
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	No classification
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
Respiratory sensitization	No classification
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	No classification
Reproductive toxicity	No classification
STOT-single exposure	No classification
STOT-repeated exposure	No classification
Aspiration hazard	No classification

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12. Ecological information

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

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As a product				
Aquatic acute	Category 2			
Aquatic 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) : 3219

Proper Shipping Name (IMDG) : NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 5.1
Hazard labels (IMDG) : 5.1
Class (IMDG) : 5.1
Division (IMDG) : 5.1

Special provision (IMDG) : 223, 274, 900

Packing instructions (IMDG) : P504
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
Stowage category (IMDG) : B

Properties and observations (IMDG) : 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.

MFAG-No : 140

Air transport(IATA)

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UN-No. (IATA) 3219

Proper Shipping Name (IATA) Nitrites, inorganic, aqueous solution, n.o.s.

1L

Packing group (IATA) Transport hazard class(es) (IATA) 5.1 Hazard labels (IATA) 5.1 Class (IATA) 5.1 Division (IATA) 5.1 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y541

PCA limited quantity max net quantity (IATA)

PCA packing instructions (IATA) 551 PCA max net quantity (IATA) 2.5L CAO packing instructions (IATA) 555 CAO max net quantity (IATA) 30L Special provision (IATA) A3, A33 ERG code (IATA) 5L

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.

Special transport precautions 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 Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance

Noxious Liquid Substances - Category Y (Law Art.3(3), Enforcement

Designating Wastewater Standards Art.1)

Order, Art.1-2, Attached Table No.1 Item 2)

Fire Service Law Not applicable

Law Relating to Prevention of Marine Pollution and Maritime

Water Pollution Prevention Law

Disasters

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)

Oxidizing substances and organic peroxides/Oxidizing substances Port Regulation Law

(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.101of 2003,)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Not applicable

16. Other information

Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd. Data sources

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

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,

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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.