

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 7/10/2008 Revision date: 4/25/2023

SDS code: C5-03

Version: 09

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Sodium disulfite C5-03
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.j	oma oc-j	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number Recommended use Restrictions on use	: : :	06-6910-7305 For research and experimental use only. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Pł	nysical hazards	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	No classification
		Organic peroxides	No classification
		Corrosive to metals	classification not possible
		Desensitized explosives	classification not possible
He	ealth hazards	Acute toxicity (oral)	Category 4
		Acute toxicity (dermal)	No classification
		Acute toxicity (inhalation:gas)	No classification
		Acute toxicity (inhalation:vapors)	No classification
		Acute toxicity (inhalation:dust/mist)	classification not possible
		Skin corrosion/irritation	classification not possible
		Serious eye damage/eye irritation	Category 1
		Respiratory sensitization	Category 1
		Skin sensitization	Category 1
		Germ cell mutagenicity	classification not possible
		Carcinogenicity	classification not possible
		Reproductive toxicity	No classification
		Specific target organ toxicity (single exposure)	Category 3 (Respiratory tract irritation.)

Environmental hazards Hazard pictograms	Specific target organ to (repeated exposure) Aspiration hazard Hazardous to the aqua environment, short-terr Hazardous to the aqua environment, long-terrr Hazardous to the ozon	classification not p ic Category 3 (acute) ic Category 3 (chronic)	oossible
(GHS JP)			
	\checkmark \checkmark		
	GHS05 GHS07	GHS08	
Signal word (GHS JP) : Dan	ger	
Hazard statements (G	May Cau	nful if swallowed (H302) cause an allergic skin reaction (H ses serious eye damage (H318) cause an allergy or asthma symp	
	inha May	ed (H334) cause respiratory irritation (H335 nful to aquatic life with long lastin	5)
Precautionary statem		nui to aqualic me with long lastin	
Prevention	Was Do i Use Con (P2 Avo Wea (P2)	2) d release to the environment. (P2 r protective gloves/protective clot	bughly after handling. (P264) g this product. (P270) ted area. (P271) ot be allowed out of the workplace. 273) thing/eye protection/face protection.
Response	(P30 IF C IF II brea IF II con (P30 (P30 Call Rins If sk If ex (P34	1+P312) N SKIN: Wash with plenty of wate HALED: Remove person to fresh thing (P304+P340) EYES: Rinse cautiously with wa act lenses, if present and easy to 5+P351+P338) ediately call a POISON CENTER a POISON CENTER or doctor if y e mouth. (P330) n irritation or rash occurs: Get me periencing respiratory symptoms: 2+P311)	n air and keep comfortable for ter for several minutes. Remove do. Continue rinsing.
Storage	: Stor (P40	 a well-ventilated place. Keep 3+P233) locked up. (P405) 	
Disposal	: Disp poir	• • •	ardous or special waste collection nal, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture

: Substance

Synonyms

: Sodium pyrosulfite, Sodium metabisulfite

Nama	Concentration or	Formula	Kanpo			
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN	
Sodium disulfite	≧95%, ≦100%	Na2S2O5	(1)-502	Existing Chemical Substance	7681-57-4	

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 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	:	Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
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.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Eq	uipment 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 Contain	ment 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

Exposure limit values	
Sodium disulfite	
Exposure limits (ACGIH)	TWA 5 mg/m3,STEL -
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	: Protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Appearance : Crystals ~ Crystalline powder	r
Color : white	
Odor : characteristic odor	
pH : No data available	
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 : 150 °C	
Flammability (solid, gas) : No data available	
Vapor pressure : No data available	
Relative density : No data available	
Density : 1.48 g/cm ³	
Relative gas density : No data available	
Solubility : No data available	
Partition coefficient n- : -3.7 octanol/water (Log Pow)	
Explosive limits (vol %) : No data available	
Viscosity, kinematic : No data available	

Revision date: 4/25/2023 SDS code: C5-03 Version: 09

Particle characteristics	:	No data available
10. Stability and reactivit	у	
Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	Be strong reducing agents, reacts with oxidizing agents. Reacts violently with concentrated sodium nitrite solution.
Conditions to avoid	:	Sunlight, moisture, heat. Contact with strong acids and strong oxidizing agents.
Incompatible materials	:	Strong acids, Strong oxidizing agents
Hazardous decomposition products	:	Sulfur oxides, Sodium oxides

11. Toxicological information

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

Sodium disulfite	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	No classification
STOT-single exposure	Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible

12. Ecological information

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

Sodium disulfite			
Hazardous to Aquatic Environment - Acute Hazard	Category 3		
Hazardous to Aquatic Environment - Chronic Hazard	Category 3		
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)	 Not applicable Not applicable Not applicable Not applicable Not applicable
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Marine pollutant Regulations in Japan	 Not applicable Not applicable Not applicable Not applicable Not applicable
Regulatory information by sea Regulatory information by air Special transport precautions 15. Regulatory information	 Not applicable Not applicable 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	

1

National law

Industrial Safety and Health Law	:	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)
Japanese Poisonous and Deleterious Substances Control Law	:	Sodium metabisulfite (Ordinance number : 412) Not applicable
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
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
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)
16. Other information		
Data sources	:	Handbook of 17423 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.