

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: B4-09

Version: 07

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Phenolphthalein B4-09
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j	oma oc-j.	chi, 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	No classification
r nyoloai nazarao	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	classification not possible
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	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
Health hazards	Acute toxicity (oral)	classification not possible
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye irritation	classification not possible
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity (single exposure)	classification not possible

	Specific target organ toxicity (repeated exposure)			Category 1 (intestinal tract)
	Aspiration haz	ard		classification not possible
Environmental hazards	Hazardous to t environment, s			classification not possible
	Hazardous to t environment, l		aquatic -term (chronic)	classification not possible
	Hazardous to t	the	ozone layer	classification not possible
Hazard pictograms (GHS JP)				
	GHS08			
Signal word (GHS JP)		:	Danger	
Hazard statements (G	HS JP)	:	Suspected of cau May damage ferti	sing genetic defects (H341) sing cancer (H351) lity or the unborn child (H360) o organs (intestinal tract) through prolonged or repeated
Precautionary stateme	ents (GHS JP)			
Prevention		:	Do not handle unt (P202) Do not breathe du Wash hands, fore Do not eat, drink d	tructions before use. (P201) il all safety precautions have been read and understood. Ist/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270) loves/protective clothing/eye protection/face protection.
Response		:		cerned: Get medical advice/attention. (P308+P313) e/attention if you feel unwell. (P314)
Storage		:	Store locked up. (P405)
Disposal		:		ts/container to hazardous or special waste collection ce with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or Synonyms		ance s(p-hydroxyphenyl)phth	alide		
Name	Concentration or Concentration	Formula	Kanpo	CAS RN	
Name	range	Formula	CSCL no	ISHL no	CAS KN
Phenolphthalein	≧98%, ≦100%	C20H14O4	(9)-1152	Existing Chemical Substance	77-09-8

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

:	Use proper extinguishing media depending on peripheral fire.
:	Do not use a heavy water stream.
:	In case of fire, product may produce irritative or toxic fumes/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.
:	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 Contai	inm	ent 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	:	Light shielding 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 shower 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

Physical state	:	Solid
Appearance	:	Powder
Color	:	white
Odor	:	Odorless
рН	:	No data available
Melting point	:	≈ 262 °C
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 (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative gas density	:	No data available
Solubility	:	Sparingly soluble in water. Soluble in ethanol. Slightly soluble in diethyl ether.
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	:	May react with strong oxidizing agents.
Conditions to avoid	:	Sunlight, heat. Contact with strong oxidizing agents.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No data available

11. Toxicological information

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

Phenolphthalein	
Acute toxicity (oral)	classification not possible
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	classification not possible
Serious eye damage/irritation	classification not possible
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible

Phenolphthalein			
Germ cell mutagenicity	Category 2		
Carcinogenicity	Category 2		
Reproductive toxicity	Category 1B		
STOT-single exposure	classification not possible		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		

12. Ecological information

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

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

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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG)	:	Not applicable Not applicable Not applicable Not applicable
Air transport(IATA)		
UN-No. (IATA)	:	Not applicable
Proper Shipping Name (IATA) Packing group (IATA)	:	Not applicable Not applicable
Transport hazard class(es) (IATA)	:	Not applicable
Marine pollutant	:	Not applicable

Regulations in Japan

Regulatory information by sea Regulatory information by air **Special transport precautions**

- : 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

National law

Industrial Safety and Health Law	:	[New added • Ordinance number changed substances on April 2024] 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) 3,3-bis(4-hydroxyphenyl)-1,3-dihydroisobenzofuran-1-one (synonym:phenolphthalein) (Ordinance number : 457-4)
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Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Class 2 Designated Chemical Substances (Act Art.2 para. 3, Enforcement Oder Art.2 Appended Table No.2) 3,3-Bis(4-hydroxyphenyl)-1,3-dihydroisobenzofuran-1-one; phenolphthalein (100%) [After amendment of April 2023] Not applicable
16. Other information		
Data sources	:	Handbook of 17322 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.