

0.05mol/L(N/10) Barium acetate solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: Q7-16 Version: 04

Safety Data Sheet

1. Chemical product and company identification

Product name	:	0.05mol/L(N/10) Barium acetate solution
SDS code	:	Q7-16
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand 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	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	classification not possible
	Oxidizing solids	No classification
	Organic peroxides	classification not possible
	Corrosive to metals	classification not possible
	Desensitized explosives	No classification
Health hazards	Acute toxicity (oral)	No classification
	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	No classification
	Serious eye damage/eye irritation	classification not possible
	Respiratory sensitization	classification not possible
	Skin sensitization	No classification
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	Category 2 (cardiovascular system, muscle, nervous system, kidneys, digestive tract)

	Specific target of (repeated exposed)			Category 2 (cardiovascular system)
	Aspiration haza	ard		classification not possible
Environmental hazards	Hazardous to the environment, sh	the aquatic short-term (acute)		classification not possible
	Hazardous to th environment, lo			classification not possible
	Hazardous to th	ne	ozone layer	classification not possible
Hazard pictograms (GHS JP)				
	GHS08			
Signal word (GHS JP))	:	Warning	
Hazard statements (G	HS JP)	:	system, kidneys,	ge to organs (cardiovascular system, muscle, nervous digestive tract) (H371) ge to organs (cardiovascular system) through prolonged sure (H373)
Precautionary stateme	ents (GHS JP)			
Prevention		:	Wash hands, fore	ust/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270)
Response		:	(P308+P311)	ncerned: Call a POISON CENTER or doctor. ce/attention if you feel unwell. (P314)
Storage		:	Store locked up. (P405)
Disposal		:		nts/container to hazardous or special waste collection ice with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo			
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN	
Barium acetate	About 1.27%	Ba(CH3COO)2	(2)-693	Existing Chemical Substance	543-80-6	
Water	About 98.73%	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 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove : contact lenses, if present and easy to do. Continue rinsing. contact Get immediate medical advice/attention. Rinse mouth. First-aid measures after ingestion : 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 measu	ires
Personal Precautions, Protective Equ	ipment 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 Containing	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

Exposure limit values	
Barium acetate	
Exposure limits (ACGIH)	TWA 0.5 mg/m3,STEL - (as Ba)

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

Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Odorless
рН	:	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	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.01 g/cm³ (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 and strong oxidizing agents.
Conditions to avoid	:	Sunlight, heat. Contact with strong acids and strong oxidizing agents.
Incompatible materials	:	Strong acids, 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.

As a product	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	classification not possible
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible

As a product			
STOT-single exposure	Category 2		
STOT-repeated exposure	Category 2		
Aspiration hazard	classification not possible		
Barium acetate			
Acute toxicity (oral)	Category 4		
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	classification not possible		
Respiratory sensitization	classification not possible		
Skin sensitization	No classification		
Germ cell mutagenicity	classification not possible		
Carcinogenicity	classification not possible		
Reproductive toxicity	classification not possible		
STOT-single exposure	Category 1 Category 3 (Respiratory tract irritation.)		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		
Water			
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		

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)	classification not possible
Hazardous to the aquatic environment, long-term (chronic)	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Barium acetate	
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	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	:	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 Not applicable
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA)	 Not applicable Not applicable Not applicable Not applicable 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 container
15. Regulatory information	
National law	
Industrial Safety and Health Law	 Harmful Substances Whose Names Are to be Indicated on the L (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- Item 1, Item 2, Attached Table No.9) Barium and its soluble compounds (Ordinance number : 449)
Japanese Poisonous and Deleterious Substances Control Law	: Not applicable

ames 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) Barium and its soluble compounds (Ordinance number : 449)
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)	:	Not applicable

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).

sure there is no leak in containers.

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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.