

Potassium iodide-Sodium acetate mixture solution

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 5/8/2012

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SDS code: J1-20 Version: 05

Safety Data Sheet

1. Chemical product and company identification

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Product name	:	Potassium iodide-Sodium acetate mixture solution
SDS code	:	J1-20
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 bc-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	classification not possible
Health hazards	Acute toxicity (oral)	classification not possible
	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	classification not possible
	Serious eye damage/eye irritation	Category 2B
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	Category 1B
	Reproductive toxicity (effects on or via lactation)	Additional category

	Specific target exposure)	org	gan toxicity (single	Category 1 (thyroid gland)
	Specific target organ toxicity (repeated exposure)			Category 1 (Skin, thyroid gland, systemic toxicity)
	Aspiration haz	ard		classification not possible
Environmental hazards	Hazardous to t environment, s			classification not possible
	Hazardous to t environment, l		aquatic g-term (chronic)	classification not possible
	Hazardous to t	the	ozone layer	classification not possible
Hazard pictograms (GHS JP)				
Signal word (CHS_ID	GHS08		Dongor	
Signal word (GHS JP	-	÷	Danger	tion (H220)
Hazard statements (C	5113 JF)	•	May cause harm Causes damage Causes damage	lity or the unborn child (H360) to breast-fed children (H362) to organs (thyroid gland) (H370) to organs (Skin, thyroid gland, systemic toxicity) through eated exposure (H372)
Precautionary statem	ents (GHS JP)			
Prevention		:	Do not handle un (P202) Do not breathe du Avoid contact dur Wash hands, fore Do not eat, drink	structions before use. (P201) til all safety precautions have been read and understood. ust/fume/gas/mist/vapors/spray. (P260) ring pregnancy and while nursing. (P263) earms and face thoroughly after handling. (P264) or smoke when using this product. (P270) gloves/protective clothing/eye protection/face protection.
Response		:	contact lenses, if (P305+P351+P33 IF exposed or cor (P308+P311) Get medical advice	e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing. 38) ncerned: Call a POISON CENTER or doctor. ce/attention if you feel unwell. (P314) rsists: Get medical advice/attention. (P337+P313)
Storage		:	Store locked up.	
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 :

News	Concentration or	Farmada	Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Potassium iodide	About 18.9%	KI	(1)-439	Existing Chemical Substance	7681-11-0
Sodium acetate	About 3.4%	CH3COONa	(2)-692	Existing Chemical Substance	127-09-3
Water	About 77.7%	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 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 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 Cont	tainn	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

l'echnical measures	:	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	
Potassium iodide	
Exposure limits (ACGIH)	TWA 0.01 ppm(IFV),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	: 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, Impervious long boots

9. Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Odorless
рН	:	8.6 (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 (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.18 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	:	May react 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	:	Iodine compounds, Sodium oxides

11. Toxicological information

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

	I ON THE GHS Classification Results by NITE.		
As a product			
Acute toxicity (oral)	classification not possible		
Acute toxicity (dermal) Acute toxicity (inhalation)	classification not possible vapors:classification not possible		
	Gases:classification not possible		
	dust, mist:classification not possible		
Skin corrosion/irritation	classification not possible		
Serious eye damage/irritation	Category 2B		
Respiratory sensitization	classification not possible		
Skin sensitization	classification not possible		
Germ cell mutagenicity	classification not possible classification not possible		
Carcinogenicity Reproductive toxicity			
STOT-single exposure	Category 1B Category 1		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		
Potassium iodide			
Acute toxicity (oral)	classification not possible		
Acute toxicity (dermal)	classification not possible		
Acute toxicity (gas)	No classification		
Acute toxicity (vapour)	No classification		
Acute toxicity (inhalation:dust/mist)	classification not possible		
Skin corrosion/irritation	classification not possible		
Skill corrosion/initiation Serious eye damage/irritation	Category 2B		
Respiratory sensitization	classification not possible		
Skin sensitization	classification not possible		
Germ cell mutagenicity	classification not possible		
Carcinogenicity	classification not possible		
Reproductive toxicity	Category 1B		
STOT-single exposure	Category 1		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		
Sodium acetate			
Acute toxicity (oral)	No data available		
Acute toxicity (dermal)	No data available		
	No data available		
Acute toxicity (gas)	No data available		
Acute toxicity (vapour)	No data available		
Acute toxicity (inhalation:dust/mist)			
Skin corrosion/irritation	No data available		
Serious eye damage/irritation	No data available		
Respiratory sensitization	No data available		
Skin sensitization	No data available		
Germ cell mutagenicity	No data available		
Carcinogenicity	No data available		
Reproductive toxicity	No data available		
STOT-single exposure	No data available		
STOT-repeated exposure	No data available		
Aspiration hazard	No data available		
Water			
Acute toxicity (oral)	No classification		
Acute toxicity (dermal)	No classification		
	No classification		
Acute toxicity (gas)			
Acute toxicity (vapour)	No classification		
Acute toxicity (inhalation:dust/mist)	No classification		
Skin corrosion/irritation	No classification		

Water				
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.

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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			
Potassium iodide				
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			
Sodium acetate				
Hazardous to Aquatic Environment - Acute Hazard	No data available			
Hazardous to Aquatic Environment - Chronic Hazard	No data available			
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			
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			
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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)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable
Air transport(IATA)	
UN-No. (IATA)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Packing group (IATA)	: Not applicable
Transport hazard class(es) (IATA)	: Not applicable
Marine pollutant	: Not applicable
Regulations in Japan	
Regulatory information by sea	: Not applicable
Regulatory information by air	Not applicable
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	:	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) Iodine and its compounds (Ordinance number : 606, After April 2024 : 605)
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
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
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

16. Other information

Data sources

Other information

- 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).
 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
 - 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.