

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/20/2023

SDS code: Q8-12 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Isoxathion-d ₁₀ Q8-12
Company/undertaking identification HAYASHI PURE CHEMIC. Address : 3-2-12 Uchihira Telephone : 06-6910-730 E-mail : shiyaku_kikaku@ URL : https://www.hpc-j.c	anoma 95 9hpc-j	ichi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use for any purpose other than research and experiment. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. Do not use in the environment.

2. Hazards identification

GHS classification

GIIS classification		
Physical hazards	Explosives	classification not possible
	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	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	No classification
	Oxidizing liquids	classification not possible
	Oxidizing solids	No classification
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	Category 3
	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	Category 4
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	Category 2B
	Respiratory sensitization	classification not possible
	Skin sensitization	No classification
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	No classification
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	Category 1 (nervous system)

	Specific targ (repeated ex		cicity	Category 1 (nervous system)
	Aspiration haz			classification not possible
Environmental Hazardous t		o the aquatic , short-term (acute)		Category 1
	Hazardous to environment			Category 1
	Hazardous to	the ozone	layer	classification not possible
Hazard pictograms (GHS JP)	Sec.			
	GHS06	GHS08	G	HS09
Signal word (GHS JF		: Dang	jer	
Hazard statements (GHS JP)	Caus Harr Caus Caus repea	es damage ated exposu	ation (H320) d (H332) to organs (nervous system) (H370) to organs (nervous system) through prolonged or
Precautionary staten	nents (GHS JP)	-		
Prevention		Wasl Do n Use (n hands, for ot eat, drink only outdooi	lust/fume/gas/mist/vapors/spray. (P260) earms and face thoroughly after handling. (P264) or smoke when using this product. (P270) rs or in a well-ventilated area. (P271) the environment. (P273)
Response		(P30 IF IN breat IF IN conta (P30) IF ex (P30) Get r Rinse If eye	1+P310) HALED: Re hing (P304- EYES: Rins act lenses, if 5+P351+P3 posed or co 8+P311) nedical advi e mouth. (P3	se cautiously with water for several minutes. Remove f present and easy to do. Continue rinsing. (38) Incerned: Call a POISON CENTER or doctor. (ce/attention if you feel unwell. (P314) (330) ersists: Get medical advice/attention. (P337+P313)
Storage			locked up.	
Disposal		: Dispo point	ose of conte	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 : Substance

Name	Concentration or	Formula	Kanpo	CAS RN		
Name	Concentration range	Tornala	CSCL no	ISHL no	OAO MA	
Isoxathion-d10	≧95%、≦100%	C13H6D10NO4PS	-	-	1259188-31-2	

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	:	Do NOT induce vomiting.
		Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Explosion hazard	:	May induce explosion of containers by heating.
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.
		Avoid (reject) fire-fighting water to enter environment.
		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

reisonal riecaulions, riolective	Equi	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 Conta	ainm	ent 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	:	Light shielding airtight container.
Technical measures	:	Comply with applicable regulations.
Storage temperature	:	Refrigerate: 2-10°C

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	: Gas mask for organic gases
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	:	slight yellow
Odor	:	characteristic odor
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	:	1.2 g/cm³ (20℃)
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 data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	Sunlight, heat. Ignition sources such as spark, flame and static electricity.
Incompatible materials	:	No data available
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides

11. Toxicological information

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

Isoxathion	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	Category 4
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	No classification
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1
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.

Isoxathion				
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			

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)	:	2810
Proper Shipping Name (IMDG)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Packing group (IMDG)	:	III
Transport hazard class(es) (IMDG)	:	6.1
Hazard labels (IMDG)	:	6.1
Class (IMDG)	:	6.1
Division (IMDG)	:	6.1
Special provision (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	Τ7
Tank special provisions (IMDG)	:	TP1, TP28
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	:	153

Air transport(IATA)

UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA)	:	2810 Toxic liquid, organic, n.o.s. III 6.1
Hazard labels (IATA) Class (IATA)	:	6.1 6.1
Division (IATA) PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)		6.1 E1 Y642 2L
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provision (IATA) ERG code (IATA)	:	655 60L 663 220L A3, A4, A137 6L
Marine pollutant	:	Applicable
Regulations in Japan		
Regulatory information by sea Regulatory information by air MFAG-No	:	Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 153

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Special transport precautions

15. Regulatory information

National law		
Industrial Safety and Health Law	:	Not applicable
Japanese Poisonous and Deleterious Substances Control Law	:	Deleterious Substances (Designated Order Art.2) Diethyl-(5-phenyl-3-isoxazolyl)-thiophosphate(Isoxathion) and preparations containing it. (except for preparations which contain 2 % or less of diethyl-(5-phenyl-3-isoxazolyl)-thiophosphate)
Water Pollution Prevention Law	:	Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
Fire Service Law	:	Group 4 - Flammable liquids - 4th Class petroleum (Law Art.2 Para.7, Attached Table 1, Group 4)
Law Relating to Prevention of Marine Pollution and Maritime Disasters	:	Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification)
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Order, Attached Table 1 Para.2 Export Trade Control Ordinance appendix 1-16
Ship Safety Act	:	Toxic and infectious substances/Toxic substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Toxic and infectious substances/Toxic substances (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Port Regulation Law	:	Toxic and infectious substances/Toxic substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Road Act	:	Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1) O,O-Diethyl O-(5-phenyl-3-isoxazolyl) phosphorothioate (synonym: Isoxathion) (100%)
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).

When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make 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.