

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/9/2021

SDS code: P3-07

Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	:
SDS code	:

Imicyafos P3-07 :

Company/undertaking identification

HAYASHI PURE CHEMICAL IND., LTD. Address : 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan Responsible department : Planning Group, Reagent & Chemical Product Department Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hpc-j.co.jp URL : https://www.hpc-j.co.jp/ **Emergency number** 06-6910-7305 :

2. Hazards identification

GHS classification

Dhysical bazarda	Decensitized eplecives	oloopification not possible
Physical hazards	Desensitized eplosives	classification not possible
	Explosives	classification not possible
	Flammable gases	No classification
	Aerosol	classification not possible
	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	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	No classification
	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
Health hazards	Acute toxicity (oral)	Category 3
	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	Category 4
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	No classification
	Respiratory sensitization	classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	Category 1 (systemic, nervous system)
	Specific target organ toxicity (repeated exposure)	Category 1 (nervous system)
	Aspiration hazard	classification not possible

Environmental hazards	Hazardous to the environment, sho Hazardous to the environment, long Hazardous to the	rt-term (acute) aquatic g-term (chronic)	Category 1 Category 1 classification not possible
Hazard pictograms (GHS JP)			-
	GHS06 G	GHS08 GH	S09
Signal word (GHS JP) :	Danger	
Hazard statements (G	SHS JP) :	Harmful if inhaled Causes damage to Causes damage to repeated exposure	ergic skin reaction (H317) (H332) to organs (systemic, nervous system) (H370) to organs (nervous system) through prolonged or
Precautionary statem	ents (GHS JP)		
Prevention	:	Wash hands, fore Do not eat, drink Use only outdoors Contaminated wo (P272) Avoid release to t	ust/fume/gas/mist/vapors/spray. (P260) earms and face thoroughly after handling. (P264) or smoke when using this product. (P270) s or in a well-ventilated area. (P271) rk clothing should not be allowed out of the workplace. he environment. (P273) loves/protective clothing/eye protection/face protection.
Response	:	(P301+P310) IF ON SKIN: Was IF INHALED: Ren breathing (P304+ IF exposed or cor (P308+P311) Get medical advic Rinse mouth. (P3 If skin irritation or	ncerned: Call a POISON CENTER or doctor. ce/attention if you feel unwell. (P314) 30) rash occurs: Get medical advice/attention. (P333+P313) nated clothing and wash it before reuse. (P362+P364)
Storage	:	Store locked up. (-
Disposal	:	Dispose of conter point, in accordar regulation. (P501	nts/container to hazardous or special waste collection ace with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

	Concentration or		Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Imicyafos	≧95%、≦100%	C11H21N4O2PS	-	8-(2)-2173	140163-89-9

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, 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	:	Water spray, 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 Equ	alphient 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 Containment 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 11				
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 : Avoid prolonged or repeated exposure.

substances or mixtures

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	: 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, Protective long boots

9. Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Slightly characteristic odor
рН	:	No data available
Melting point	:	-53.3 – -50.5 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	184 °C
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	:	1.20 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	Soluble in many organic solvents. Water: 77.6 g/l (20°C)
Partition coefficient n- octanol/water (Log Pow)	:	1.64 (25°C)
Explosive limits (vol %)	:	No data available
Viscosity, kinematic	÷	No data available
Particle characteristics	:	No data available
r annue charactensucs	·	INU UALA AVAIIADIE

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
Incompatible materials	:	No data available
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides, Cyanide

11. Toxicological information

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

12. Ecological information

Imicyafos				
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)

:	3278
÷	ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S.
:	III 6.1
÷	6.1
:	6.1
:	6.1
:	43, 223, 274
:	5 L
:	E1
:	P001, LP01
:	IBC03
:	Τ7
:	TP1, TP28
:	A
:	Toxic if swallowed, by skin contact or by inhalation.
:	151

Air transport(IATA)

UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA) Division (IATA)	 3278 Organophosphorus compound, liquid, toxic, n.o.s. III 6.1 6.1 6.1 6.1 6.1
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: Y642 : 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 60L : 663
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A3, A4, A6, A137
ERG code (IATA)	: 6L
Marine pollutant	: Applicable
Regulations in Japan	
Regulatory information by sea Regulatory information by air MFAG-No Special transport precautions	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 151 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	:	Not applicable
Japanese Poisonous and Deleterious Substances Control Law	:	Deleterious Substances (Designated Order Art.2) O-Ethyl S-propyl [(2E)-2-(cyanoimino)-3-ethylimidazolidin-1- yl]phosphonothioate(Imicyafos) and preparations containing it. (except for preparations which contain 1.5 % or less of O-ethyl S- propyl [(2E)-2-(cyanoimino)-3-ethylimidazolidin-1- yl]phosphonothioate.)
Fire Service Law	:	Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)
Foreign Exchange and Foreign Trade Control Act	:	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)	:	Not applicable
16. Other information		
Data cources		Handbook of 17221 Chamical Products, The Chamical Daily Co. Ltd

Data sources	:	Handbook of 17221 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).
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.