

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/29/2021

SDS code: T1-13 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	:	PL Pesticides (Class I Specified Chemical Substances) Mix I
SDS code	:	T1-13
	oma Plan pc-j	chi, Chuo-ku, Osaka, Osaka, Japan ning Group, Reagent & Chemical Product Department
Emergency number	:	06-6910-7305

2. Hazards identification

GHS classification

Physical hazards	Desensitized eplosives	classification not possible
	Explosives	No classification
	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	Category 2
	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	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
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 2
	Specific target organ toxicity (single exposure)	Category 3 (Respiratory tract irritation.)
	Specific target organ toxicity (single exposure)	Category 3 (Narcosis)

Environmental hazards Hazard	Hazardous to the	osure) ard he aquatic hort-term (acute) he aquatic ong-term (chronic)	Category 1 (diges respiratory system classification not p Category 1 Category 3 classification not p	oossible
pictograms (GHS JP)	(1)	!> <		
	GHS02	GHS07 GH	IS08 GHS09)
Signal word (GHS JP)	: Danger		
Hazard statements (C	θΗS JP)	Causes eye irrita May cause respir May cause drows Suspected of dar Causes damage respiratory syster Very toxic to aqu	atory irritation (H335 siness or dizziness (naging fertility or the to organs (digestive n) through prolonge	5) H336) unborn child (H361) tract, central nervous system, d or repeated exposure (H372)
Precautionary statem	ents (GHS JP)			
Prevention		Do not handle un (P202) Keep away from sources. No smo Ground and bond Use explosion-pr Use only non-spa Take action to pr Do not breathe d Wash hands, fore Do not eat, drink Use only outdoor Avoid release to Wear protective o (P280)	heat, hot surfaces, s king. (P210) d container and rece oof electrical/ventilat arking tools. (P242) event static discharg ust/fume/gas/mist/va earms and face thoro or smoke when usin s or in a well-ventila the environment. (P2 gloves/protective clo	ons have been read and understood. sparks, open flames and other ignition iving equipment. (P240) ting/lighting equipment. (P241) ges. (P243) apors/spray. (P260) bughly after handling. (P264) og this product. (P270) ted area. (P271) 273) thing/eye protection/face protection.
Response		Rinse skin with w IF INHALED: Ref breathing (P304+ IF IN EYES: Rins contact lenses, if (P305+P351+P3: IF exposed or co Get medical advi If eye irritation pe	rater . (P303+P361+ move person to fresh P340) e cautiously with wa present and easy to 38) ncerned: Get medica ce/attention if you fe risists: Get medical a se specify appropria	n air and keep comfortable for ater for several minutes. Remove o do. Continue rinsing. al advice/attention. (P308+P313)
Storage		: Store in a well-ve (P403+P233)	ntilated place. Keep ntilated place. Keep	container tightly closed.
Disposal		: Dispose of conte	nts/container to haza	ardous or special waste collection nal, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo	number	
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Acetone	≧98%	(CH3)2CO	(2)-542	Existing Chemical Substance	67-64-1
4,4'-DDT	20µg/mL	C14H9Cl5	(4)-910	Existing Chemical Substance	50-29-3
Aldrin	20µg/mL	C12H8Cl6	(4)-303	Existing Chemical Substance	309-00-2
Endrin	20µg/mL	C12H8Cl6O	(4)-299	Existing Chemical Substance	72-20-8
HCB (Hexachlorobenzene)	20µg/mL	C6Cl6	(3)-76, (3)-2250	Existing Chemical Substance	118-74-1
Heptachlor	20µg/mL	C10H5Cl7	(9)-1646	Existing Chemical Substance	76-44-8
Lindane (γ-BHC)	20µg/mL	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	58-89-9
α-Endosulfan	20µg/mL	C9H6Cl6O3S	-	-	959-98-8
α-НСН	20µg/mL	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	319-84-6
β-Endosulfan	20µg/mL	C9H6Cl6O3S	-	-	33213-65-9
β-НСН	20µg/mL	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	319-85-7
α-Chlordane (cis)	20µg/mL	C10H6Cl8	(4)-637	7-(1)-408	5103-71-9
γ-Chlordane (trans)	20µg/mL	C10H6Cl8	(4)-637	7-(1)-408	5103-74-2
Dieldrin	20µg/mL	C12H8Cl6O	(4)-299	Existing Chemical Substance	60-57-1

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	:	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.
Fire hazard	:	Extremely flammable liquid and vapor.
Explosion hazard	:	Danger of the steam explosion in indoor, outdoor, sewer.
		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.
		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

Immediately place the distances for all direct Wear appropriate pers	ate the area. d persons come close to the area. leakage area in isolation, with taking proper
Do not let unauthorize Immediately place the distances for all direct Wear appropriate pers contact with eye, skin, Environmental precautions	d persons come close to the area. leakage area in isolation, with taking proper ions. sonal protective devices to prevent inhalation and
Immediately place the distances for all direct Wear appropriate pers contact with eye, skin, Environmental precautions	leakage area in isolation, with taking proper ions. sonal protective devices to prevent inhalation and
distances for all direct Wear appropriate pers contact with eye, skin, Environmental precautions	ions. sonal protective devices to prevent inhalation and
contact with eye, skin, Environmental precautions	
•	
Environmental precautions : Avoid release to the e	
	nvironment.
Prevent entry to sewe	rs and public waters.
Methods and Equipment for Containment and Cleaning up	
Methods for cleaning up : Clean up any spills as collect it.	soon as possible, using an absorbent material to
Collect leaking and sp	illed liquid in sealable containers as far as possible.
Wash out the spilled a	rea with large amounts of water.
7. Handling and storage	
Handling	
-	personal protective equipment to prevent inhalation
or contact to eyes, ski	
	event leakage, overflowing, or scattering, minimize vapor, and thoroughly ventilate.
Precautions for safe handling : Do not eat, drink or sn	noke when using this product.
Thoroughly wash your	r hands and gargle after handling.
Ensure good ventilation	on of the work station.
Do not contact, breath	e or swallow.
Take precautionary m	easures against static discharge.
Use explosion-proof e	quipment.
Prevents handling of incompatible : Avoid prolonged or repsubstances or mixtures	peated exposure.
Storage	
Storage conditions : Store locked up.	
	ed place, away from direct sunlight. Keep container p away from fire and heat sources.
Material used in : Light shielding airtight packaging/containers	container.
Technical measures : Comply with applicabl	e regulations.
Storage temperature : Freeze: -20°C	-

8. Exposure controls / Personal protection equipment

Acetone	
Japan administration level	500ppm
Exposure limits (JSOH)	200ppm(470mg/m3)
Exposure limits (ACGIH)	TWA 250 ppm,STEL 500 ppm
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, Protective long boots

9. Physical and chemical properties

-	-	-
Physical state	:	Liquid
Appearance	:	Liquid
Color	:	No data available
Odor	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	57 °C (as acetone)
Flash point	:	-20 °C (as acetone, tag closed cup)
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	:	0.8 g/cm ³ (as acetone, 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 oxidants, reductants, and bases. When contacting with strong oxidants like acetic acid, nitric acid, and hydrogen peroxide, explosive peroxides can be produced. In the basic condition, reacting with chloroform and bromoform, the risk of fire and explosion can be caused. Corrodes the plastics.
Conditions to avoid	:	Sunlight, heat. Ignition sources such as spark, flame, and static electricity. Contact with oxidants, reductants, bases, and chloroform and bromoform in the basic condition.
Incompatible materials	:	Oxidants, Reductants, Bases, Chloroform and bromoform in the basic condition
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)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	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
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 3 (Respiratory tract irritation.) Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Acetone	T
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)	classification not possible
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	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
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.

As a product	
Hazardous to the aquatic environment, short-term (acute)	Category 1
Hazardous to the aquatic environment, long-term (chronic)	Category 3
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Acetone	
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	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 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

J	
Transport by sea(IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG)	: 1993 : FLAMMABLE LIQUID, N.O.S.
Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG) Class (IMDG)	: II
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) Stowage category (IMDG) MFAG-No	: P001 : IBC02 : T7
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA)	: 11
PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provision (IATA)	: E2 : Y341 : 1L : 353 : 5L : 364 : 60L : A3
ERG code (IATA)	
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. 127 When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.
	damage, drop of conapse. Make sure there is no leak in containers.
15. Regulatory information National law	
Chemical Substances Control Law	: Class I Specified Chemical Substances (Law Art.2, Para.2, Enforcement Order Art.1) Priority Assessment Chemical Substances (Law Article 2, Para.5)
Industrial Safety and Health Law	: Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning,

Art.1, Para.1, Item 4)

Levels (Law Art.65-2, Para.1) 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)

Dangerous Substances - Flammable Substance (Enforcement Order

Working Environment Evaluation Standards, Administrative Control

Japanese Poisonous and Deleterious Substances Control Law	em 1, Item 2, Atta cetone (Ordinanc ubstances on Spe orkers (Act, Art.60 oisonous Substar reparations conta inethanobenzodiox reparations conta imethanonaphtha reparations conta imethanonaphata reparations conta imethanonaphtha reparations conta	es (Law Art.57-2, Enforcement Order Art.18-2 ched Table No.9) e number : 17) ecial medical examination, Current handling 6, Para.2, Enforcement Order, Art.22 Item 1) nces (Designated Order, Art.1) ining hexachlorohexahydro athiepine oxide ining hexachloro-epoxy-octahydro-endo,endo- lene(Endrin) nces (Designated Order Art.2) ining hexachloro-hexahydro-exo-1,4-endo-5,8- lene (Aldrin) ining hexachloro-epoxy-octahydro-endo,exo-
Water Pollution Prevention Law		cal Substances (Law Article 2, Paragraph 4,
Narcotics and Psychotropics Control Act	aw Materials(Law	Art.2 (7), Attached Table Art.4)
Fire Service Law		ble liquids - 1st Class petroleums - soluble (Law ned Table 1, Group 4)
Air Pollution Control Law		utants (Central Environment Council Report No. 9) ompounds (Law Art.2 Para.4) (MOE Official Notice
Foreign Exchange and Foreign Trade Control Act		ol Ordinance appendix 1-16 xport Trade Control Order, Attached Table 2)
Ship Safety Act	lammable liquids	(Dangerous Goods Notification Schedule first rticle Dangerous Goods Regulations)
Civil Aeronautics Law		(Hazardous materials notice Appended Table 1 nforcement Regulations)
Port Regulation Law		(Article 21, Paragraph 2 of Law, Article 12 rule, le that defines the type of dangerous goods)
Road Act		cle Traffic (Enforcement Order Art.19-13, n Highway Pablic Corp.)
Waste Management on Public Cleansing Law	pecially Controlle order Art.2-4)	d Industrial Wastes (Act Art.2, para 5, Enfothment
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	ot applicable	
Labor Standards Act		ces Causing Occupational Illnesses (Act Art.75, Attached Table 1-2, Item 4-1,MHLW Nortification
16. Other information		
Data sources	ternational Chem ational Institute of	I Chemical Products, The Chemical Daily Co, Ltd. ical Safety Cards. Technology and Evaluation (NITE). esponse Guidebook (ERG 2016).
Other information	he SDS is copyrig his Safety Data S perators who han roduct and is not i ata Sheet does no hemical substance nknown danger co he product shall be ser with the highe isposal. When the im/herself shall co nd regulations at to ubstance is actual ompany shall take	wheed material of Hayashi Pure Chemical Ind, Ltd. heet is intended to be provided for business dle chemical substance products of the relevant intended to assure safety in any way. The Safety of verify all the information on the applicable in the present time. With the recognition in that onstantly exists in the relevant chemical substance, is used in the principle of self-responsibility of the st priority to safety from transport and unpacking to relevant chemical substance is used, the user illect safety information and shall investigate laws he place, organizations, countries, etc. where the ly used and give the highest priority to them. The is no responsibility for investigating state and local 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.