

PL Pesticides (Class I Specified Chemical Substances) Mix I

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name PL Pesticides (Class I Specified Chemical Substances) Mix I

SDS code T1-13

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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06-6910-7305 **Emergency number**

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

Health hazards

Physical hazards No classification **Explosives**

> 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

classification not possible

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and

mixtures

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

Desensitized explosives No classification No classification Acute toxicity (oral)

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 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 Category 3 (Narcosis)

exposure)

exposure)

Aspiration hazard

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

Specific target organ toxicity

(repeated exposure)

Category 1 (central nervous system, respiratory

system, digestive tract) classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute) Category 1

Hazardous to the aquatic

environment, long-term (chronic)

Category 2

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)









GHS02

GHS07

GHS08

GHS09

Signal word (GHS JP)

Hazard statements (GHS JP)

Danger

Highly flammable liquid and vapor (H225)

Causes eye irritation (H320)

May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Suspected of damaging fertility or the unborn child (H361)

Causes damage to organs (central nervous system, respiratory system,

digestive tract) through prolonged or repeated exposure (H372)

Very toxic to aquatic life (H400)

Toxic to aquatic life with long lasting effects (H411)

Precautionary statements (GHS JP)

Prevention

Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Ground and bond container and receiving equipment. (P240) Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Get medical advice/attention if you feel unwell. (P314)

If eye irritation persists: Get medical advice/attention. (P337+P313) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Collect spillage. (P391)

Storage

Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store in a well-ventilated place. Keep cool. (P403+P235)

Store locked up. (P405)

Disposal

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		040 PM
			CSCL no	ISHL no	- CAS RN
Acetone	≧98%	(CH3)2CO	(2)-542	Existing Chemical Substance	67-64-1
4,4'-DDT	About 0.0025%	C14H9Cl5	(4)-910	Existing Chemical Substance	50-29-3
Aldrin	About 0.0025%	C12H8Cl6	(4)-303	Existing Chemical Substance	309-00-2
Endrin	About 0.0025%	C12H8Cl6O	(4)-299	Existing Chemical Substance	72-20-8
HCB (Hexachlorobenzene)	About 0.0025%	C6Cl6	(3)-76, (3)-2250	Existing Chemical Substance	118-74-1
Heptachlor	About 0.0025%	C10H5CI7	(9)-1646	Existing Chemical Substance	76-44-8
Lindane (γ-BHC)	About 0.0025%	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	58-89-9
α-Endosulfan	About 0.0025%	C9H6Cl6O3S	-	8-(8)-26	959-98-8
α-НСН	About 0.0025%	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	319-84-6
β-Endosulfan	About 0.0025%	C9H6Cl6O3S	-	8-(8)-26	33213-65-9
β-НСН	About 0.0025%	C6H6Cl6	(3)-2250, (9)-1652	Existing Chemical Substance	319-85-7
α-Chlordane (cis)	About 0.0025%	C10H6Cl8	(4)-637	7-(1)-408	5103-71-9
γ-Chlordane (trans)	About 0.0025%	C10H6Cl8	(4)-637	7-(1)-408	5103-74-2
Dieldrin	About 0.0025%	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 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 imm

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.

se of fire

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

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 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. 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.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

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 : Freeze: -20°C

8. Exposure controls / Personal protection equipment

Component name	Administration level (MHLW)	Exposure limits (JSOH)		
Component name	Administration level (Milett)	Standard Value	JSOH OEL C	
Acetone	500 ppm	475 mg/m³ 200 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, Impervious long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : No data available
Odor : No data available
pH : 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 : No data available
Vapor pressure : No data available
Relative density : No data available

Density : 0.8 g/cm³ (as acetone, 20°C)

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 : Reacts with oxidants, reductants and bases. When contacting with strong

oxidants like 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)	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	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 (Narcosis) Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	
Acetone		
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 2		
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

Transport by sea(IMDG)

UN-No. (IMDG) 1993

Proper Shipping Name (IMDG) FLAMMABLE LIQUID, N.O.S.

T7

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 3 Hazard labels (IMDG) 3 Class (IMDG) 3 274 Special provision (IMDG) Limited quantities (IMDG) 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02

Tank instructions (IMDG) Tank special provisions (IMDG) TP1, TP28, TP8

Stowage category (IMDG) В MFAG-No 127

Air transport(IATA)

UN-No. (IATA) 1993

Proper Shipping Name (IATA) Flammable liquid, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 3 Hazard labels (IATA) 3 Class (IATA) 3 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net 1L

quantity (IATA) PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 CAO max net quantity (IATA) 601 Special provision (IATA) АЗ ERG code (IATA) 3Н

Marine pollutant **Applicable**

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No 127

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

Chemical Substances Control Law Class I Specified Chemical Substances (Law Art.2, Para.2,

Enforcement Order Art.1)

Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Industrial Safety and Health Law

Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning,

Art.1, Para.1, Item 4)

Working Environment Evaluation Standards, Administrative Control

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

Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.30 Appended Table

No.2)

Industrial Safety and Health Law

Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.34-2 Appended Table No.2)

Acetone

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)

Japanese Poisonous and Deleterious Substances Control Law Poisonous Substances (Designated Order, Art.1)

Preparations containing hexachlorohexahydro

methanobenzodioxathiepine oxide

Preparations containing hexachloro-epoxy-octahydro-endo,endo-

dimethanonaphthalene(Endrin)

Deleterious Substances (Designated Order Art.2)

Preparations containing hexachloro-hexahydro-exo-1,4-endo-5,8-

dimethanonaphatalene (Aldrin)

Preparations containing hexachloro-epoxy-octahydro-endo,exo-

dimethanonaphthalene(Dieldrin)

Preparations containing 1,4,5,6,7-pentachloro-3a,4,7,7a-tetrahydro-

4,7-(8,8-dichloromethano)-indene(Heptachlor)

Water Pollution Prevention Law Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Narcotics and Psychotropics Control

Raw Materials(Law Art.2 (7), Attached Table Art.4)

Group 4 - Flammable liquids - 1st Class petroleums - soluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

Hazardous Air Pollutants (Central Environment Council Report No. 9) Air Pollution Control Law

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act

Civil Aeronautics Law

Fire Service Law

Export Trade Control Ordinance appendix 1-16

Export Approval (Export Trade Control Order, Attached Table 2) Flammable liquids (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Flammable liquids (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, Port Regulation Law

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.)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Japanese Pollutant Release and

Not applicable

Transfer Register Law (PRTR Law)

Labor Standards Act Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

No.36 of 1978)

16. Other information

Data sources Handbook of 17625 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

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.