

PL2005 Pesticides LC/MS Mix II

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name : PL2005 Pesticides LC/MS Mix II

SDS code : 16-02

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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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

Health hazards

Physical hazards Explosives classification not possible

Flammable gases No classification

Aerosol classification not possible

Oxidizing gases

Gases under pressure

Flammable liquids

Flammable solids

No classification

Category 2

No classification

Self-reactive substances and

mixtures

classification not possible

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

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
Acute toxicity (oral) classification not possible

Acute toxicity (dermal) Category 3

Acute toxicity (inhalation:gas) classification not possible

Acute toxicity (inhalation:vapors) Category 4

Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation Category 2

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single Category 1 (central nervous system, respiratory

exposure) system)

respiratory system, liver, kidneys)

Category 2 (blood system, central nervous system,

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

classification not possible

Category 2

Environmental hazards

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

Hazardous to the aquatic environment, long-term (chronic) classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS08

GHS02

GHS06

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Highly flammable liquid and vapor (H225)

Toxic in contact with skin (H311) Causes serious eye irritation (H319)

Harmful if inhaled (H332)

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

May cause damage to organs (blood system, central nervous system, respiratory system, liver, kidneys) through prolonged or repeated exposure

(H373)

Toxic to aquatic life (H401)

Precautionary statements (GHS JP)

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

sources. No smoking. (P210)

Keep container tightly closed. (P233)

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)

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

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: Call a POISON CENTER or doctor.

(P308+P311)

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

If eye irritation persists: Get medical advice/attention. (P337+P313) Take off immediately all contaminated clothing and wash it before reuse.

(P361+P364)

In case of fire: Use specify appropriate media to extinguish. (P370+P378)

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

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	Formula	Kanpo number		CAS RN
Name	Concentration range	Formula	CSCL no	ISHL no	CAS KN
Acetonitrile	≧98%	CH3CN	(2)-1508	Existing Chemical Substance	75-05-8
Acephate	About 0.0025%	C4H10NO3PS	-	2-(3)-168	30560-19-1
Acibenzolar acid	About 0.0025%	C7H4N2O2S	=	-	35272-27-6
Acibenzolar-S-methyl	About 0.0025%	C8H6N2OS2	-	-	135158-54-2
Benzofenap	About 0.0025%	C22H20Cl2N2O3	-	8-(2)-1322	82692-44-2
Carbendazim	About 0.0025%	C9H9N3O2	(5)-465	8-(2)-746	10605-21-7
Cumyluron	About 0.0025%	C17H19CIN2O	-	-	99485-76-4
Cycloprothrin	About 0.0025%	C26H21Cl2NO4	(3)-3983	7-(3)-249	63935-38-6
Dimethirimol	About 0.0025%	C11H19N3O	=	8-(2)-617	5221-53-4
Fenbutatin oxide	About 0.0025%	C60H78OSn2	-	1-(2)-166	13356-08-6
E-Fenpyroximate	About 0.0025%	C24H27N3O4	-	8-(2)-1462	134098-61-6
Z-Fenpyroximate	About 0.0025%	C24H27N3O4	-	8-(2)-1462	149054-53-5
Hexythiazox	About 0.0025%	C17H21CIN2O2S	(5)-5743	8-(7)-795	78587-05-0
Linuron	About 0.0025%	C9H10Cl2N2O2	(3)-2193	4-(13)-44	330-55-2
Mepanipyrim	About 0.0025%	C14H13N3	-	-	110235-47-7
Mepanipyrim metabolite (Mepanipyrim propanol type)	About 0.0025%	C14H17N3O	-	-	204571-52-8
Oxaziclomefone	About 0.0025%	C20H19Cl2NO2	-	8-(7)-1478	153197-14-9
Phoxim	About 0.0025%	C12H15N2O3PS	(3)-3374	Existing Chemical Substance	14816-18-3
Probenazole	About 0.0025%	C10H9NO3S	(5)-3433	Existing Chemical Substance	27605-76-1
Prochloraz	About 0.0025%	C15H16Cl3N3O2	-	8-(2)-1421	67747-09-5
Tebufenozide	About 0.0025%	C22H28N2O2	-	-	112410-23-8
Tepraloxydim	About 0.0025%	C17H24CINO4	-	-	149979-41-9
Tepraloxydim metabolite (DMP)	About 0.0025%	C12H20O5	-	-	-
Tepraloxydim metabolite (OH-DMP)	About 0.0025%	C12H20O6	-	-	-
Thiocyclam hydrogen oxalate	About 0.0025% (as free)	C7H13NO4S3	-	-	31895-22-4
Triflumizole	About 0.0025%	C15H15CIF3N3O	(5)-5717	-	68694-11-1
Triflumizole metabolite FM-6-1	About 0.0025%	C12H14CIF3N2O	-	-	109849-99-2
Triforine	About 0.0025%	C10H14Cl6N4O2	-	8-(2)-510	26644-46-2
Carpropamid	About 0.0025%	C15H18Cl3NO	-	-	104030-54-8
Spinosyn A	About 0.0025%	C41H65NO10	-	-	131929-60-7
Nitenpyram	About 0.0025%	C11H15CIN4O2	-	8-(1)-2353	150824-47-8
Benzobicyclon metabolite	About 0.0025%	C16H15CIO5S	-	-	-
Cyazofamid	About 0.0025%	C13H13CIN4O2S	-	8-(2)-2230	120116-88-3
Methoxyfenozide	About 0.0025%	C22H28N2O3	-	4-(7)-2520	161050-58-4

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 : 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.

Extremely flammable liquid and vapor.

Fire hazard
Explosion hazard

Firefighting instructions

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.

m sace of me, product may produce innative of texts turnes, gases.

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

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

Exposure limit values			
Acetonitrile			
Exposure limits (ACGIH)	TWA 20 ppm,STEL - (Skin)		

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 : -45 °C (as acetonitrile)
Freezing point : No data available
Boiling point : 82 °C (as acetonitrile)

Flash point : 9.5 °C (as acetonitrile, 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 : 0.80 g/cm³ (as acetonitrile)

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 : React with strong oxidizing agents, pose a risk of fire and explosion. React

with acids and bases, generate a toxic gas. Erode plastics and rubbers.

Conditions to avoid : Sunlight, moisture, heat. Ignition sources such as spark, flame and static

electricity. Contact with oxidizing agents, reducing agents, acids and bases.

Contact with vinyl chloride resin, polystyrene, polycarbonate, etc.

Incompatible materials : Oxidizing agents, Reducing agents, Acids, Bases, Vinyl chloride resin,

Polystyrene, Polycarbonate, etc

Hazardous decomposition : Nitrogen oxides, Hydrogen cyanide

products

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)	Category 3	
Acute toxicity (inhalation)	vapors:Category 4	
	Gases:classification not possible	
	dust, mist:classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2	
Respiratory sensitization Skin sensitization	classification not possible classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	
Acetonitrile		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	Category 3	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 4	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
STOT-repeated exposure	Category 2	
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,	Category 2
short-term (acute)	
Hazardous to the aquatic environment,	classification not possible
long-term (chronic)	
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible

Acetonitrile		
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	

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 : Empty the packaging completely prior to disposal.

packaging 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) : 1992

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

Packing group (IMDG) : II
Transport hazard class(es) (IMDG) : 3 (6.1)

Hazard labels (IMDG) 3,6.1 Class (IMDG) 3 Subsidiary hazard (IMDG) 6.1 Special provision (IMDG) 274 Limited quantities (IMDG) 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG) T7

Tank special provisions (IMDG) : TP2, TP13

Stowage category (IMDG) : B

Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or,

on account of its characteristics, in some other class. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No : 131

Air transport(IATA)

UN-No. (IATA) : 1992

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

Packing group (IATA) : II

Transport hazard class(es) (IATA) : 3 (6.1)
Hazard labels (IATA) : 3, 6.1
Class (IATA) : 3
Subsidiary hazards (IATA) : 6.1
PCA Excepted quantities (IATA) : E2
PCA Limited quantity max net : 1L

quantity (IATA)

PCA packing instructions (IATA) : 352
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provision (IATA) : A3
ERG code (IATA) : 3HP

Marine pollutant : Not 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 : 131

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

Industrial Safety and Health Law

Priority Assessment Chemical Substances (Law Article 2, Para.5)

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) Acetonitrile (Ordinance number: 15)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Japanese Poisonous and

Deleterious Substances Control Law

Poisonous Substances (Designated Order, Art.1)

Hexakis(beta,beta-dimethylpentyl)distannoxane(Fenbutatin oxide)

and preparations containing it

Deleterious Substances (Designated Order Art.2)

Organic cyanide compounds and preparations containing it (except

for following (1)-(169))

Water Pollution Prevention Law : Hazardous Substances (Act, Art.2, Enforcement Order Art.2,

Ministerial Ordinance to Provide for Effluent Standards, Art.1)

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

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

Designation of Materials Requiring Notification (Law Art.9-3, Cabinet Order on Hazardous Materials Art.1-10 Para 5, Attached Table No.1-

8, Ordinacne No. 2 of 1988, Art.1)

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

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

Export Trade Control Ordinance appendix 1-16

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)

Port Regulation Law : Flammable liquids (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.)

Waste Management on Public

Cleansing Law

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

Order Art.2-4)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Class 1 Designated Chemical Substances (Act Art.2 para. 2,

Enforcement Oder Art.1 Appended Table No.1)

Acetonitrile (≥98%)

[After amendment of April 2023]

Not applicable

Soil Contamination

Countermeasures Law

Designated Hazardous Substances (Act Art.2 Para.3, Enforcement

Order Art.1)

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).

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

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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.