

# PL2005 Pesticides LC/MS Mix 4

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: D8-01

Version: 03

# Safety Data Sheet

## 1. Chemical product and company identification

Product name SDS code	<ul><li>PL2005 Pesticides LC/MS Mix 4</li><li>D8-01</li></ul>
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	omachi, Chuo-ku, Osaka, Osaka, Japan pc-j.co.jp
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

Explosives	classification not possible
Flammable gases	No classification
Aerosol	classification not possible
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	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	classification not possible
Oxidizing liquids	classification not possible
Oxidizing solids	No classification
Organic peroxides	classification not possible
Corrosive to metals	classification not possible
Desensitized eplosives	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 exposure)	Category 1 (respiratory system, central nervous system)
	Flammable gasesAerosolOxidizing gasesGases under pressureFlammable liquidsFlammable solidsSelf-reactive substances and mixturesPyrophoric liquidsPyrophoric solidsSelf-heating substances and mixturesSubstances and mixturesSubstances and mixturesOxidizing substances and mixturesSubstances and mixtures which in contact with water emit flammable gasesOxidizing liquidsOxidizing solidsOrganic peroxidesCorrosive to metalsDesensitized eplosivesAcute toxicity (oral)Acute toxicity (inhalation:gas)Acute toxicity (inhalation:dust/mist)Skin corrosion/irritationSerious eye damage/eye irritationRespiratory sensitizationSkin sensitizationGerm cell mutagenicityCarcinogenicityReproductive toxicitySpecific target organ toxicity (single

Environmental hazards Hazard pictograms (GHS JP)	Specific target of (repeated expose Aspiration hazar Hazardous to th environment, sh Hazardous to th environment, lor Hazardous to th	sure) rd e aquatic nort-term (acute) ne aquatic ng-term (chronic)	Category 2 (blood s nervous system, kie classification not po Category 2 Category 2 classification not po	ossible
	GHS02	GHS06 GH	IS08 GHS09	
Signal word (GHS JP	) :	Danger		
Hazard statements (C	-	<ul> <li>Highly flammable Toxic in contact w Causes serious e Harmful if inhaled Causes damage (H370) May cause dama nervous system, l (H373)</li> </ul>	ye irritation (H319) I (H332) to organs (respiratory ge to organs (blood s	ystem, central nervous system) system, respiratory system, central h prolonged or repeated exposure
Precautionary statem	ents (GHS JP)			
Prevention	:	sources. No smol Keep container tig Ground and bond Use explosion-pro Use only non-spa Take action to pre Do not breathe du Wash hands, forre Do not eat, drink Use only outdoors Avoid release to t Wear protective g (P280)	king. (P210) ghtly closed. (P233) I container and receiv pof electrical/ventilatii irking tools. (P242) event static discharge ust/fume/gas/mist/vap earms and face thorou or smoke when using s or in a well-ventilate the environment. (P2 gloves/protective cloth	pors/spray. (P260) ughly after handling. (P264) this product. (P270) ed area. (P271) 73) hing/eye protection/face protection.
Response		Rinse skin with w IF INHALED: Rer breathing (P304+ IF IN EYES: Rins contact lenses, if (P305+P351+P35 IF exposed or cor (P308+P311) Get medical advid If eye irritation pe Take off immedia (P361+P364)	ater . (P303+P361+F nove person to fresh P340) e cautiously with wat present and easy to 38) ncerned: Call a POIS ce/attention if you fee rsists: Get medical ac tely all contaminated se specify appropriate	air and keep comfortable for er for several minutes. Remove do. Continue rinsing. ON CENTER or doctor.
Storage	:	Store in a well-ve Store locked up. (	ntilated place. Keep ( (P405)	cool. (P403+P235)
Disposal	:	Dispose of conter	nts/container to hazan	rdous or special waste collection al, national and/or international

### 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo	Kanpo number		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN	
Acetonitrile	≧98%	CH3CN	(2)-1508	Existing Chemical Substance	75-05-8	
Acibenzolar-S-methyl	About 0.0025%	C8H6N2OS2	-	-	135158-54-2	
Aldicarb	About 0.0025%	C7H14N2O2S	-	-	116-06-3	
Anilofos	About 0.0025%	C13H19CINO3PS2	-	4-(9)-296	64249-01-0	
Azamethiphos	About 0.0025%	C9H10CIN2O5PS	(5)-6031	8-(7)-872	35575-96-3	
Azoxystrobin	About 0.0025%	C22H17N3O5	-	-	131860-33-8	
Benzofenap	About 0.0025%	C22H20Cl2N2O3	-	8-(2)-1322	82692-44-2	
Chloridazon (PAC)	About 0.0025%	C10H8CIN3O	-	8-(2)-32	1698-60-8	
Chloroxuron	About 0.0025%	C15H15CIN2O2	-	-	1982-47-4	
Cumyluron	About 0.0025%	C17H19CIN2O	-	-	99485-76-4	
Dimethomorph	About 0.0025%	C21H22CINO4	-	-	110488-70-5	
Epoxiconazol	About 0.0025%	C17H13CIFN3O	-	8-(3)-1352	133855-98-8	
Fenoxaprop ethyl	About 0.0025%	C18H16CINO5	-	-	66441-23-4	
Imidacloprid	About 0.0025%	C9H10CIN5O2	(5)-6226	-	105827-78-9, 138261-41-3	
Indanofan	About 0.0025%	C20H17CIO3	-	-	133220-30-1	
Mepanipyrim	About 0.0025%	C14H13N3	-	-	110235-47-7	
Methomyl	About 0.0025%	C5H10N2O2S	-	2-(5)-130	16752-77-5	
Oxaziclomefone	About 0.0025%	C20H19Cl2NO2	-	8-(7)-1478	153197-14-9	
Pirimicarb	About 0.0025%	C11H18N4O2	-	-	23103-98-2	
Tebufenozide	About 0.0025%	C22H28N2O2	-	-	112410-23-8	
Tebuthiuron	About 0.0025%	C9H16N4OS	(5)-5242	Existing Chemical Substance	34014-18-1	
Thiodicarb	About 0.0025%	C10H18N4O4S3	-	2-(12)-235	59669-26-0	
Lactofen	About 0.0025%	C19H15CIF3NO7	-	-	77501-63-4	
Carpropamid	About 0.0025%	C15H18Cl3NO	-	-	104030-54-8	
Pyriftalid	About 0.0025%	C15H14N2O4S	-	-	135186-78-6	
Spinosyn A	About 0.0025%	C41H65NO10	-	-	131929-60-7	
Spinosyn D	About 0.0025%	C42H67NO10	-	-	131929-63-0	
Clothianidin	About 0.0025%	C6H8CIN5O2S	(5)-6732	8-(7)-1316	210880-92-5	
Simeconazole	About 0.0025%	C14H20FN3OSi	-	-	149508-90-7	
Fenamidone	About 0.0025%	C17H17N3OS	-	8-(2)-2054	161326-34-7	
Novaluron	About 0.0025%	C17H9CIF8N2O4	-	4-(13)-223	116714-46-6	

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.
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.
		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 Contair	ment 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.
<b>—</b> • • • • • •	

## 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, 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	:	-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/cm <sup>3</sup> (as acetonitrile)
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	:	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 products	:	Nitrogen oxides, Hydrogen cyanide

### 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			
Obie servesien (insite tien	dust, mist:classification not possible			
Skin corrosion/irritation	classification not possible			
Serious eye damage/irritation Respiratory sensitization	Category 2 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			
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, short-term (acute)	Category 2			
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			

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 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

Transport by sea(IMDG)UN-No. (IMDG): 1992Proper Shipping Name (IMDG): FLAMMABLE LIQUID, TOXIC, N.O.S.Packing group (IMDG): IITransport hazard class(es) (IMDG): 3 (6.1)Hazard labels (IMDG): 3, 6.1Class (IMDG): 6.1Subsidiary hazard (IMDG): 6.1Special provision (IMDG): 274Limited quantities (IMDG): 1 LExcepted quantities (IMDG): E2Packing instructions (IMDG): BCO2Tank special provisions (IMDG): IBCO2Tank special provisions (IMDG): T7Tank special provisions (IMDG): T2, TP13Stowage category (IMDG): BProperties and observations (IMDG): BMFAG-No: 131Air transport(IATA): 1992UN-No. (IATA): 1992Proper Shipping Name (IATA): Flammable liquid, toxic, n.o.s.
Proper Shipping Name (IMDG):FLAMMABLE LIQUID, TOXIC, N.O.S.Packing group (IMDG):IITransport hazard class(es) (IMDG):3 (6.1)Hazard labels (IMDG):3,6.1Class (IMDG):6.1Subsidiary hazard (IMDG):6.1Special provision (IMDG):274Limited quantities (IMDG):1 LExcepted quantities (IMDG):E2Packing instructions (IMDG):P001IBC packing instructions (IMDG):T77Tank special provisions (IMDG):T72Tank special provisions (IMDG):T72Tank special provisions (IMDG):T2, P13Stowage category (IMDG):BProperties and observations (IMDG):I31Air transport(IATA):1992
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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)       :       1992
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MFAG-No : 131 Air transport(IATA) UN-No. (IATA) : 1992
Air transport(IATA) UN-No. (IATA) : 1992
UN-No. (IATA) : 1992
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 quantities (IATA) : Y341
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 : 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	÷	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Industrial Safety and Health Law	:	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 Attached Table 1 Item 4) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Acetonitrile (Ordinance number : 15)
Japanese Poisonous and Deleterious Substances Control Law	:	Deleterious Substances (Designated Order Art.2) Organic cyanide compounds and preparations containing it (except for following (1)-(169)) Preparations containing 45% or less of S-methyl-N- [(methylcarbamoyl)-oxy]thioacetimidate(Methomyl) 3,7,9,13-Tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12- tetraazapentadeca-3,12-diene-6,10-dione(Thiodicarb) and preparations containing it 2-Dimethylamino-5,6-dimethylpyrimidyl-4-N,N-dimethylcarbamate and preparations containing it
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)
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	:	Export Trade Control Ordinance appendix 1-16 Export Approval (Export Trade Control Order, Attached Table 2)
Ship Safety Act	:	Flammable liquids (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	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
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
Soil Contamination Countermeasures Law	:	Designated Hazardous Substances (Act Art.2 Para.3, Enforcement Order Art.1)
16. Other information		

# Data sources:Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd.<br/>International Chemical Safety Cards.<br/>National Institute of Technology and Evaluation (NITE).<br/>2020 Emergency Response Guidebook (ERG 2020).Other information:The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.<br/>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.