

## PL Pesticides surrogate mix II (9mix)

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: R1-18

Version: 04

## Safety Data Sheet

### 1. Chemical product and company identification

Product name	:	PL Pesticides surrogate mix II (9mix)
SDS code	:	R1-18
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.j	oma pc-j	chi, Chuo-ku, Osaka, Osaka, Japan
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

GIIS classification		
Physical hazards	Explosives	classification not possible
	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	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	No classification
	Oxidizing liquids	classification not possible
	Oxidizing solids	No classification
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	No classification
	Acute toxicity (dermal)	No classification
	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 exposure)	Category 3 (Narcosis)

		rgan toxicity (single	Category 3 (Respiratory tract irritation.)
	exposure) Specific target of (repeated expos		Category 1 (central nervous system, respiratory system, digestive tract)
	Aspiration hazar	d	classification not possible
Environmental hazards	Hazardous to the environment, she		Category 3
	Hazardous to the environment, lon		No classification
	Hazardous to the	e ozone layer	classification not possible
Hazard pictograms (GHS JP)	<ul> <li>(***)</li> </ul>	!> <	
	GHS02	GHS07 GH	IS08
Signal word (GHS JP	) :	Danger	
Hazard statements (G	SHS JP) :	Causes eye irritat May cause respira May cause drows Suspected of dan Causes damage f	atory irritation (H335) iness or dizziness (H336) naging fertility or the unborn child (H361) to organs (central nervous system, respiratory system, rough prolonged or repeated exposure (H372)
Precautionary statem	ents (GHS JP)		
Prevention	:	Do not handle uni (P202) Keep away from H sources. No smol Ground and bond Use explosion-pro Use only non-spa Take action to pre Do not breathe du Wash hands, fore Do not eat, drink o Use only outdoors Avoid release to t Wear protective g (P280)	l container and receiving equipment. (P240) pof electrical/ventilating/lighting equipment. (P241) arking tools. (P242) event static discharges. (P243) 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) he environment. (P273) loves/protective clothing/eye protection/face protection.
Response	:	Rinse skin with w IF INHALED: Ren breathing (P304+ IF IN EYES: Rins contact lenses, if (P305+P351+P33 IF exposed or cor Get medical advid If eye irritation pe	e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing.
Storage	:	(P403+P233)	ntilated place. Keep container tightly closed. ntilated place. Keep cool. (P403+P235) (P405)
Disposal	:		nts/container to hazardous or special waste collection nce with local, regional, national and/or international )

### 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornua	CSCL no	ISHL no	CASIN
Acetone	≧98%	(CH3)2CO	(2)-542	Existing Chemical Substance	67-64-1
Acephate-d6	About 0.0025%	C4H4D6NO3PS	-	2-(3)-168	-
Imazalil-d5	About 0.0025%	C14H9D5Cl2N2O	(5)-6891	8-(2)-2055	1398065-91-2
Iprobenphos-d7 (IBP-d7)	About 0.0025%	C13H14D7O3PS	-	4-(9)-133	-
Thiabendazole-13C6	About 0.0025%	C4*C6H7N3S	(9)-820, (9)-1851	8-(7)-224	-
Carbaryl-d7	About 0.0025%	C12H4D7NO2	(4)-387	Existing Chemical Substance	362049-56-7
Linuron-d6	About 0.0025%	C9H4D6Cl2N2O2	(3)-2193	4-(13)-44	1219804-76-8
(±)-Metolachlor-d6	About 0.0025%	C15H16D6CINO2	-	4-(7)-1351	1219803-97-0
Fosthiazate-d5	About 0.0025%	C9H13D5NO3PS2	-	8-(7)-864	-
Pendimethalin-d5	About 0.0025%	C13H14D5N3O4	-	4-(12)-561	1219803-39-0

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.
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

Personal Precautions, Protective E	
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 Conta	inment 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		
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

Acetone		
500ppm		
200ppm(470mg/m3)		
TWA 250 ppm,STEL 500 ppm		
: 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.		
: Gas mask for organic gases		
: Impervious protective gloves		
: Protective glasses (general glasses, glasses with side-shields, goggles)		
: 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
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 <sup>3</sup> (as acetone, 20 $^{\circ}$ 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 generated. 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)	No classification
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,	Category 3			
short-term (acute)				
Hazardous to the aquatic environment,	No classification			
long-term (chronic)				
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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG) Class (IMDG)		1993 FLAMMABLE LIQUID, N.O.S. II 3 3 3
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: : : : : : : : : : : : : : : : : : : :	274 1 L E2 P001 IBC02

Tank instructions (IMDG) Tank special provisions (IMDG)	: T7 : TP1, TP28, TP8
Stowage category (IMDG)	: B
MFAG-No	: 127
Air transport(IATA)	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA) Packing group (IATA)	: Flammable liquid, n.o.s. : Il
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)	050
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 353 : 5L
CAO packing instructions (IATA)	: 3C
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 3H
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	: 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	
	Olares O. Orazania, O. Avanta etc. (Enforcement Orden, Art. Avanandad
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)
	Working Environment Evaluation Standards, Administrative Control
	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) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2
	Item 1, Item 2, Attached Table No.9)
	Acetone (Ordinance number : 17)
	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	: Not applicable
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)
Act	Orang A. Elagarable limite. Act Olaga astrological astrological
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	: Export Trade Control Order, Attached Table 1 Para.2
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)
	Andore 197 of the Entoroement Regulations/

Port Regulation Law Road Act Waste Management on Public Cleansing Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Labor Standards Act	: : :	Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods) Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.) Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4) Not applicable Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)
10. Other information		
<b>16. Other information</b> 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 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.