



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 08-Nov-2023 Revision Number 6.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Pesticide Mixture Standard Solution PL-12-1 (each 20µg/mL Acetone Solution)
Product Code	161-23941,167-23943

FUJIFILM Wako Pure Chemical Corporation **Supplier**

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Emergency telephone number

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Recommended uses

Restrictions on use

For research use only

Reference material (as defined in Japanese Industrial Standards (JIS) Q0030) Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Flammable liquids Category 2 Serious eye damage/eye irritation Category 2B **Reproductive Toxicity** Category 2 Specific target organ toxicity (single exposure) Category 3

Category 3 Respiratory irritation, Narcotic effects Specific target organ toxicity (repeated exposure)

Category 1 central nervous system, respiratory system

Pictograms



Hazard statements

H225 - Highly flammable liquid and vapor

H320 - Causes eye irritation

H361 - Suspected of damaging fertility or the unborn child

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, respiratory system

Precautionary statements-(Prevention)

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling

Category 1

- Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- · Keep cool

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

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

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Acetone	<100	58.08	(2)-542	*	67-64-1
1,1-Dichloro-2,2-bis(4-et	0.0020	307.26	N/A	N/A	72-56-0
hylphenyl)ethane					
Propaphos	0.0020	304.34	N/A	N/A	7292-16-2
(RS)-2,4'-Difluoro-α-(1H-	0.0020	301.29	N/A	N/A	76674-21-0
1,2,4-triazol-1-ylmethyl)b					
enzhydryl Alcohol					
CPCBS	0.0020	303.16	N/A	N/A	80-33-1
Clomazone	0.0020	239.70	N/A	N/A	81777-89-1
1-Naphthylacetamide	0.0020	185.22	N/A	N/A	86-86-2
4-Chlorobenzyl	0.0020	269.19	N/A	N/A	103-17-3
p-chlorophenyl sulfide					
Epoxiconazole	0.0020	329.76	N/A	N/A	106325-08-0
Carfentrazone-ethyl	0.0020	412.19	N/A	8-(3)-1016	128639-02-1
Picolinafen	0.0020	376.30	N/A	N/A	137641-05-5
Dicrotophos	0.0020	237.19	N/A	N/A	141-66-2
Cinidon-ethyl	0.0020	394.25	N/A	N/A	142891-20-1
Spirodiclofen	0.0020	411.32	N/A	8-(4)-1342	148477-71-8
Fenamidone	0.0020	311.4	N/A	8-(2)-2054	161326-34-7
Flufenpyr-ethyl	0.0020	408.73	N/A	N/A	188489-07-8
Formothion	0.0020	257.27	N/A	2-(7)-83	2540-82-1
Mecarbam	0.0020	329.37	N/A	2-(7)-80	2595-54-2
Nortron	0.0020	286.34	N/A	8-(4)-1865	26225-79-6
Phorate	0.0020	260.38	N/A	N/A	298-02-2
Ethylthiomethon	0.0020	274.40	N/A	2-(7)-79	298-04-4
Fenchlorphos	0.0020	321.55	(9)-604	*	299-84-3
Methoprene	0.0020	310.47	N/A	2-(6)-609	40596-69-8
Isazofos	0.0020	313.74	N/A	N/A	42509-80-8
Bromophos-ethyl	0.0020	394.05	N/A	N/A	4824-78-6

Carboxin	0.0020	235.30	N/A	N/A	5234-68-4
O,O-Diethyl	0.0020	336.00	N/A	N/A	54593-83-8
O-(1,2,2,2-tetrachloroeth					
yl)phosphorothioate					

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Container protected from light, and store tightly closed in freezer (-20°C). Packed with an

inert gas. Store locked up.

Safe packaging material

Ampoule

Incompatible substances Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Acetone	200ppm(470mg/m ³)	ISHL/ACL: 500 ppm	STEL: 500 ppm
67-64-1	-		TWA: 250 ppm
Carfentrazone-ethyl	N/A	N/A	TWA: 1 mg/m³ inhalable
128639-02-1			particulate matter
Dicrotophos	N/A	N/A	TWA: 0.05 mg/m³ inhalable
141-66-2			fraction and vapor
			Skin
Phorate	N/A	N/A	TWA: 0.05 mg/m³ inhalable
298-02-2			fraction and vapor
			Skin
Ethylthiomethon	N/A	N/A	TWA: 0.05 mg/m³ inhalable
298-04-4			fraction and vapor
			Skin
Fenchlorphos	N/A	N/A	TWA: 5 mg/m³ inhalable
299-84-3			fraction and vapor

Personal protective equipment

Respiratory protection
Hand protection
Eye protection

gas mask for organic gas (JIS T 8152)
chemical protective gloves (JIS T 8116)
protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Data except for the appearance is described as the unlabeled form.

Form

Color colorless **Turbidity** clear liquid **Appearance**

characteristic odor Odor

Melting point/freezing point -95.3 °C 56 °C Boiling point, initial boiling point and boiling range

Highly flammable liquid and vapor Flammability 1

Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper: 13.0 vol% 2.15 vol% Lower: -18 °C Flash point **Auto-ignition temperature:** 538 °C

Decomposition temperature: no data available no data available Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available

Solubilities water, Ethanol, Diethyl ether: freely soluble.

n-Octanol/water partition coefficient:(log Pow) -0.24Vapour pressure 24.7

Specific Gravity / Relative density 0.789 - 0.792 g/mL

Vapour density 2.0

Particle characteristics no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available Chemical stability May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Halides, Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	5800 mg/kg (Rat)	> 7400 mg/kg (Rabbit)	32000 ppm (Rat) 4 h(vapor)
1,1-Dichloro-2,2-bis(4-ethylphe nyl)ethane	6600 mg/kg (Rat)	N/A	N/A
Propaphos	72.5 mg/kg (Rat)	72.0 mg/kg (Rat)	0.039 mg/L (Rat) mist
(RS)-2,4'-Difluoro-α-(1H-1,2,4-t riazol-1-ylmethyl)benzhydryl Alcohol	1140 mg/kg (Rat)	N/A	N/A
CPCBS	2 g/kg (Rat)	>10 g/kg (Rat)	N/A
Clomazone	1369 mg/kg (Rat)	> 2000 mg/kg (Rat)	4800 mg/m ³ (Rat) 4 h
1-Naphthylacetamide	1690 mg/kg (Rat)	> 2 g/kg (Rabbit)	N/A
4-Chlorobenzyl p-chlorophenyl sulfide	2 g/kg (Rat)	N/A	N/A
Carfentrazone-ethyl	>5000 mg/kg (Rat)	>4000 mg/kg (Rat)	>5.09 g/m³ (Rat) 4 h
Picolinafen	>5000mg/kg (Rat)	>4000mg/kg (Rat)	>5.9 mg/L (Rat)

Dicrotophos	178 mg/kg (Rat)	168 mg/kg (Rabbit) 42 mg/kg (Rat)	> 500 mg/m³ (Rat) 4 h (mist)
		225 mg/kg (Rabbit)	, ,
Cinidon-ethyl	N/A	> 2200 mg/kg (Rat)	N/A
Spirodiclofen	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	5.03 mg/L (Rat) 4 h
Formothion	250 mg/kg (Rat)	> 1000 mg/kg (Rabbit) 353 mg/kg (Rat)	4500 mg/m³(Rat)4 h
Mecarbam	23 mg/kg (Rat)	229 mg/kg (Rabbit) 380 mg/kg (Rat)	0.9 mg/L 4 h
Nortron	6400 mg/kg (Rat)	> 20050 mg/kg (Rabbit)	> 5.385 mg/L (Rat)
Phorate	1.5 mg/kg (Rat)	3.8 mg/kg (Rat)	0.0028 mg/L (Rat)
Ethylthiomethon	2.6 mg/kg (Rat) 4.2 mg/kg (Rat)	7.3 mg/kg (Rat) 6 mg/kg (Rat)	0.015 mg/L
Fenchlorphos	1492 mg/kg (Rat)	1600 mg/kg (Rabbit)	N/A
Methoprene	25 g/kg (Rat)	3000 mg/kg (Rabbit) 3 g/kg (Rabbit)	N/A
Isazofos	27 mg/kg (Rat)	118 mg/kg (Rat)	103 mg/m ³ (Rat) 4 h
Bromophos-ethyl	52 mg/kg (Rat)	500 mg/kg (Rabbit) 1 g/kg (Rat)	N/A
Carboxin	430 mg/kg (Rat)	> 4000 mg/kg (Rabbit) 1050 mg/kg (Rat) 8 g/kg (Rabbit)	> 20 g/m³ (Rat)1 h
O,O-Diethyl D-(1,2,2,2-tetrachloroethyl)pho sphorothioate	2 mg/kg (Rat)	N/A	0.58 ppm (Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Acetone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Propaphos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Carfentrazone-ethyl	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Dicrotophos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
•	classification results.	classification results.	classification results.
Spirodiclofen	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.
Mecarbam	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Phorate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Ethylthiomethon	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Fenchlorphos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Acetone	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.

Fenchlorphos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
•	classification results.	classification results.	classification results.

	/corrosi	

Chemical Name	Skin corrosion/irritation source information
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Fenchlorphos	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Fenchlorphos	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information	
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Carfentrazone-ethyl	Based on the NITE GHS classification results.	
Dicrotophos	Based on the NITE GHS classification results.	
Spirodiclofen	Based on the NITE GHS classification results.	
Mecarbam	Based on the NITE GHS classification results.	
Phorate	Based on the NITE GHS classification results.	
Ethylthiomethon Based on the NITE GHS classification results.		
Fenchlorphos Based on the NITE GHS classification results.		

Reproductive cell mutagenicity

Chemical Name germ cell mutagencity source informatio	
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.
Ethylthiomethon Based on the NITE GHS classification results. Fenchlorphos Based on the NITE GHS classification results.	

Carcinogenicity			
Chemical Name	Carcinogenicity source information		
Acetone	Based on the NITE GHS classification results.		
Propaphos	Based on the NITE GHS classification results.		
Carfentrazone-ethyl	Based on the NITE GHS classification results.		
Dicrotophos	Based on the NITE GHS classification results.		
Spirodiclofen Based on the NITE GHS classification results			
Mecarbam Based on the NITE GHS classification results.			
Phorate Based on the NITE GHS classification results.			
Ethylthiomethon Based on the NITE GHS classification results.			
Fenchlorphos	Based on the NITE GHS classification results.		

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
1,1-Dichloro-2,2-bis(4-ethylphenyl)ethane 72-56-0		Group 2A		
Propaphos 7292-16-2		Group 2A		
Dicrotophos 141-66-2		Group 2A		
Formothion 2540-82-1		Group 2A		
Mecarbam 2595-54-2		Group 2A		
Phorate 298-02-2	-	Group 2A	-	-
Ethylthiomethon 298-04-4		Group 2A		
Fenchlorphos 299-84-3	-	Group 2A	-	-
Isazofos 42509-80-8		Group 2A		
Bromophos-ethyl 4824-78-6		Group 2A		
O,O-Diethyl O-(1,2,2,2-tetrachloroethyl)phosphorothioate 54593-83-8		Group 2A		

Reproductive toxicity

Reproductive toxicity		
Chemical Name	Reproductive toxicity source information	
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Carfentrazone-ethyl	Based on the NITE GHS classification results.	
Dicrotophos	Based on the NITE GHS classification results.	
Spirodiclofen Based on the NITE GHS classification results.		
Mecarbam	Based on the NITE GHS classification results.	
Phorate Based on the NITE GHS classification results.		
Ethylthiomethon Based on the NITE GHS classification results.		
Fenchlorphos Based on the NITE GHS classification results.		

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Carfentrazone-ethyl	Based on the NITE GHS classification results.	
Dicrotophos	Based on the NITE GHS classification results.	
Spirodiclofen	Based on the NITE GHS classification results.	
Mecarbam	Based on the NITE GHS classification results.	
Phorate	Based on the NITE GHS classification results.	
Ethylthiomethon Based on the NITE GHS classification results.		
Fenchlorphos Based on the NITE GHS classification results.		

STOT-repeated exposure

Chemical Name STOT -repeated exposure- source info		
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Carfentrazone-ethyl	Based on the NITE GHS classification results.	
Dicrotophos	Based on the NITE GHS classification results.	
Spirodiclofen	Based on the NITE GHS classification results.	
Mecarbam	Dam Based on the NITE GHS classification results.	
Phorate	Based on the NITE GHS classification results.	
Ethylthiomethon Based on the NITE GHS classification results.		
Fenchlorphos Based on the NITE GHS classification results.		

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Acetone	Based on the NITE GHS classification results.

Propaphos	Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Fenchlorphos	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	N/A	LC50 : Fathead minnow >100 mg/L 96 h	N/A
CPCBS	N/A	LC50 : 0.7 mg/L 96 h	N/A
Carfentrazone-ethyl	N/A	LC50 : 1.6 mg/L 96 h	N/A
Picolinafen	EC50 : 0.000025 mg/L 72 h	LC50 : >0368 mg/L 96 h	EC50 : 0.45 mg/L 48 h
Dicrotophos	N/A	LC50 : 22.0 mg/L 96 h	EC50 : Daphnia magna 0.024 mg/L 48 h
Cinidon-ethyl	EC50 : 0.021 mg/L 72 h	N/A	N/A
Spirodiclofen	ErC50 : Raphidocelis subcapitata 0.0292 mg/L 96 h	LC50 : Oncorhynchus mykiss > 0.035 mg/L 96 h	EC50 : Daphnia magna > 0.0508 mg/L 48 h
Flufenpyr-ethyl	EC50 : Algae 0.012 mg/L 72 h	N/A	N/A
Nortron	EC50 : 3.9 mg/L 72 h	LC50 : Cyprinus carpio 10.92 mg/L 96 h LC50 : Oncorhynchus mykiss 20.2 mg/L 96 h LC50 : Lepomis macrochirus 21.2 mg/L 96 h	EC50 : 14 mg/L 48 h
Phorate	N/A	ÑΆ	LC50 : Amphipods family 4 μg/L 96 h
Ethylthiomethon	N/A	LC50:Lepomis macrochirus 0.094 - 0.136 mg/L 96 h LC50:Oncorhynchus mykiss 0.2 - 5.5 mg/L 96 h LC50:Pimephales promelas 1.64 - 2.13 mg/L 96 h LC50:Poecilia reticulata 0.28 mg/L 96 h	EC50:Daphnia magna 0.033 mg/L 48 h EC50:Daphnia magna 0.75 ppb 48 h
Fenchlorphos	N/A	LC50 : Cutthroat Trout 171 ug/L 96 h	N/A
Carboxin	EC50:Chlorella vulgaris 1.9 mg/L 96 h	LC50:Lepomis macrochirus 1 - 1.4 mg/L 96 h LC50:Oncorhynchus mykiss 1.5 - 2.4 mg/L 96 h LC50:Oncorhynchus mykiss 1.6 - 2.5 mg/L 96 h LC50:Lepomis macrochirus 2.7 - 4.3 mg/L 96 h	EC50:Daphnia magna 73 - 97.6 mg/L 48 h LC50:Daphnia magna 54 mg/L 48 h EC50:Daphnia magna 57 mg/L 48 h

Other data

•	Julei data		
Г	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
		aquatic environment source	aquatic environment source
		information	information
Γ	Acetone	Based on the NITE GHS classification	Based on the NITE GHS classification
		results	results

Propaphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Carfentrazone-ethyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Dicrotophos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Spirodiclofen	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Mecarbam	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phorate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenchlorphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number UN1090 Proper shipping name: Acetone UN classfication 3

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1090
Proper shipping name: Acetone

UN classfication Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1090
Proper shipping name: Acetone
UN classfication 3

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2 water-soluble

Poisonous and Deleterious **Substances Control Law**

Deleterious Substances 3rd. Grade

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Working Environment Evaluation Standards, Administrative Control Levels (Law

Art.65-2. Para.1)

Regulations for the carriage

and storage of dangerous goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Marine Pollution Prevention

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Dangerous Substances

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Narcotics and Psychotropics Appendix 2 Export Approval Item

Control Law

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Acetone 67-64-1 (<100)	-	Applicable	-
Propaphos 7292-16-2 (0.0020)	Applicable	-	-
Mecarbam 2595-54-2 (0.0020)	Applicable	-	-
Ethylthiomethon 298-04-4 (0.0020)	Applicable	-	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

The following contents were revised. Prodauct and company Identification. Fire fighting **Record of SDS revisions**

measures. Exposure controls/personal protection. Stability and reactivity. Toxicological

information. Ecological information. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet