SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 17-May-2023
Revision Number 4.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	66 Pesticides Mixture Standard Solution WQ-1-2 (each 20µg/ml Acetone Solution
Product Code	164-26633,168-26631

Manufacturer
FUJIFILM Wako Pure Chemical Corporation
1-2 Doshomachi 3-Chome
Chuo-ku, Osaka 540-8605, Japan
Phone: +81-6-6203-3741
Fax: +81-6-6203-5964

Supplier
FUJIFILM Wako Pure Chemical Corporation
1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan
Phone: +81-6-6203-3741
Fax: +81-6-6203-2029

Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only
Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)

Restrictions on use 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
Category 1 central nervous system, respiratory system	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Pictograms

Signal word Danger

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
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- 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 CO2, dry chemical, or foam for extinction
- Collect spillage

Precautionary statements-(Storage)

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

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
Ethylthiomethon	0.002	274.40	N/A	2-(7)-79	298-04-4
Procymidone	0.002	284.14	(5)-5250	*	32809-16-8
Diazinon	0.002	304.35	(5)-923	*	333-41-5
Butamifos	0.002	332.36	N/A	N/A	36335-67-8
Iprodione	0.002	330.17	N/A	8-(2)-1131	36734-19-7
BPMC	0.002	207.27	(3)-2211	8-(2)-1441	3766-81-2
Pendimethalin	0.002	281.31	N/A	4-(12)-561	40487-42-1
Bifenox	0.002	342.13	N/A	4-(7)-1329	42576-02-3
1-methyl-3-(1-methyl-1-phenylethyl)-1-phenylurea	0.002	268.35	(3)-3228	公表	42609-73-4
Isoprothiolane	0.002	290.40	N/A	8-(6)-21	50512-35-1
Pretilachlor	0.002	311.85	N/A	N/A	51218-49-6
Trichlorfon	0.002	257.44	N/A	N/A	52-68-6
MPP	0.002	278.33	N/A	4-(9)-130	55-38-9
Mepronil	0.002	269.34	N/A	4-(7)-1315	55814-41-0
Tolclofos-methyl	0.002	301.13	N/A	4-(9)-127	57018-04-9
Pyroquilon	0.002	173.21	N/A	8-(1)-1760	57369-32-1

Metalaxyl	0.002	279.33	N/A	N/A	57837-19-1
Dimethoate	0.002	229.26	(2)-1962	*	60-51-5
Propiconazole	0.002	342.22	(5)-6187	8-(3)-731	60207-90-1
Dimepiperate	0.002	263.40	N/A	8-(1)-1822	61432-55-1
2,2-Dichlorovinyl Dimethyl Phosphate	0.002	220.98	(2)-3224	2-(7)-181	62-73-7
Anilofos	0.002	367.85	N/A	4-(9)-296	64249-01-0
Pencycuron	0.002	328.84	N/A	4-(13)-149	66063-05-6
Flutolanil	0.002	323.31	(3)-3925	N/A	66332-96-5
Buprofezin	0.002	305.44	N/A	N/A	69327-76-0
Mefenacet	0.002	298.36	N/A	8-(7)-827	73250-68-7
Bromobutide	0.002	312.25	N/A	4-(7)-1142	74712-19-9
Ethofenprox	0.002	376.49	(3)-3981	4-(14)-178	80844-07-1
Esprocarb	0.002	265.41	N/A	4-(6)-325	85785-20-2
Pyributicarb	0.002	330.44	N/A	8-(1)-2038	88678-67-5
Methidathion	0.002	302.33	N/A	8-(7)-172	950-37-8
Pyriproxyfen	0.002	321.37	(3)-4093	8-(1)-2090	95737-68-1
thenylchlor	0.002	323.84	N/A	8-(6)-147	96491-05-3
Dithiopyr	0.002	401.42	N/A	8-(1)-2619	97886-45-8
Simetryne	0.002	213.30	N/A	8-(3)-237	1014-70-6
Pyridaphenthion	0.002	340.33	(5)-5598	公表	119-12-0
2,6-Dichlorobenzonitrile	0.002	172.01	(3)-4103	4-(7)-477	1194-65-6
Malathon	0.002	330.36	(2)-1963	*	121-75-5
Fenitrothion	0.002	277.23	(3)-2616	4-(9)-232	122-14-5
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	0.002	201.66	(5)-3846	8-(3)-63	122-34-9
cafenstrole	0.002	350.44	N/A	8-(3)-834	125306-83-4
Captan	0.002	300.59	(9)-934	8-(1)-635	133-06-2
Napropamide	0.002	271.35	(9)-2333	5-359	15299-99-7
Trifluralin	0.002	335.28	(3)-426	4-(12)-215 4-(12)-284	1582-09-8
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	0.002	269.77	N/A	4-(10)-162	15972-60-8
Edifenphos	0.002	310.37	N/A	4-(9)-91	17109-49-8
2,4,6-Trichloro-4'-nitrodiphenyl ether	0.002	318.54	(3)-979	4-(12)-282	1836-77-7
Benfluralin	0.002	335.28	N/A	4-(12)-373	1861-40-1
Isoxathion	0.002	313.31	N/A	N/A	18854-01-8
Chlorothalonil	0.002	265.91	(3)-1805	4-(7)-539	1897-45-6
Atrazine	0.002	215.68	(5)-3851	*	1912-24-9
MBPMC	0.002	277.40	(3)-2208	*	1918-11-2
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	0.002	323.30	(3)-2617	4-(3)-17	2104-64-5
Molinate	0.002	187.30	N/A	8-(1)-34,8-(1)-998,8-(1)-1683	2212-67-1
Dimethametryn	0.002	255.38	(5)-5441	*	22936-75-0
Propyzamide	0.002	256.13	N/A	4-(7)-458	23950-58-5
Piperophos	0.002	353.48	N/A	N/A	24151-93-7
Isofenphos	0.002	345.39	(3)-3683	4-(9)-258	25311-71-1
Echlomezol	0.002	247.53	N/A	8-(7)-83	2593-15-9
Phenthoate	0.002	320.36	(3)-2615	*	2597-03-7
Iprobenfos	0.002	288.34	N/A	4-(9)-133	26087-47-8
MIPC	0.002	193.24	(3)-2211,(3)-2212	4-(6)-184	2631-40-5
Chloroneb	0.002	207.05	(3)-955	4-(14)-223	2675-77-6
Fthalide	0.002	271.91	1-261	8-(4)-356	27355-22-2
Benthiocarb	0.002	257.78	N/A	4-(6)-73	28249-77-6
Chlorpyrifos	0.002	350.59	(5)-3724	8-(1)-1042	2921-88-2

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.
Eye 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
Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand
Unsuitable extinguishing media
Do not use straight streams
Specific hazards arising from the chemical product
Vapors may form explosive mixtures with air Thermal decomposition can lead to release of irritating and toxic gases and vapors.
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). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. 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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Acetone 67-64-1	200ppm(470mg/m^3)	ISHL/ACL: 500 ppm	STEL: 500 ppm TWA: 250 ppm
Ethylthiomethon 298-04-4	N/A	N/A	TWA: 0.05 mg/m^3 inhalable fraction and vapor Skin
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7	ISHL/ACL: 0.1 mg/m^3	ISHL/ACL: 0.1 mg/m^3	TWA: 0.1 mg/m^3 inhalable fraction and vapor Skin
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester 2104-64-5	N/A	N/A	TWA: 0.1 mg/m^3 inhalable particulate matter Skin

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection 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

Form

Color colorless

Turbidity clear

Appearance liquid

Odor characteristic odor

Melting point/freezing point -95.3 °C

Boiling point, initial boiling point and boiling range 56 °C

Flammability Highly flammable liquid and vapor

Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits
Upper: 13.0 vol%
Lower: 2.15 vol%
Flash point -18 °C
Auto-ignition temperature: 538 °C
Decomposition temperature: no data available
pH 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) -0.24
Vapour 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), Halides, Phosphorus oxide, Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

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)
Ethylthiomethon	2.6 mg/kg (Rat) 4.2 mg/kg (Rat)	7.3 mg/kg (Rat) 6 mg/kg (Rat)	0.015 mg/L
Dimethoate	245 mg/kg (Rat)	> 2000 mg/kg (Rat)	1.68 mg/L (Rat) 4 h
2,2-Dichlorovinyl Dimethyl Phosphate	58.8 mg/kg (Rat)	113 mg/kg (Rat)	vapor : 1.66 ppm (Rat) 4 h mist : 0.34 mg/L (Rat) 4 h
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	7.7 mg/kg (Rat)	533 mg/kg (Rat)	0.121 mg/L (Rat) 4h
Isofenphos	28 mg/kg (Rat)	162 mg/kg (Rat)	0.144 mg/L (Rat) 4h
Methidathion	12 mg/kg (Rat)	297 mg/kg (Rat)	3.6 mg/L (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 classification results.	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.	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Methidathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS 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.	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	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.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	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.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.

2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Ethylthiomethon 298-04-4		Group 2A		
Dimethoate 60-51-5		Group 2A		
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7		Group 2B		Group 2B
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester 2104-64-5		Group 2A		
Isofenphos 25311-71-1		Group 2A		
Methidathion 950-37-8		Group 2A		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	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.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Acetone	Based on the NITE GHS classification results.
Ethylthiomethon	Based on the NITE GHS classification results.
Dimethoate	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.
Methidathion	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*
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*
Dimethoate	*ErC50 : Pseudokirchneriella subcapitata 280 mg/L 72 h*	*N/A*	*EC50 : Daphnia magna 2 mg a.i./L 48 h*
2,2-Dichlorovinyl Dimethyl Phosphate	*N/A*	*N/A*	*EC50 : Daphnia magna 0.00007 mg/L 48 h*
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	*N/A*	*LC50:Lepomis macrochirus 0.060 - 0.110 mg/L 96 h LC50:Pimephales promelas 0.0648 - 0.0953 mg/L 96 h LC50:Oncorhynchus mykiss 0.110 - 0.900 mg/L 96 h LC50:Poecilia reticulata 0.032 mg/L 96 h LC50:Pimephales promelas 0.2 mg/L 96 h*	*EC50 :Daphnia magna 0.00006 mg/L 26 h*
Isofenphos	*EC50:Desmodesmus subspicatus 6.8 mg/L 96 h*	*LC50:Lepomis macrochirus 2.2 mg/L 96 h LC50:Oncorhynchus mykiss 3.3 mg/L 96 h*	*EC50:Daphnia magna 1.6ppb 48h*
Methidathion	*N/A*	*LC50 : Lepomis macrochirus 0.0022 mg a.i. / L 96 h*	*EC50 : Daphnia magna 0.0011 mg a.i. / L 48 h*

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Acetone	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.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Isofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability No information available
Bioaccumulative potential No information available
Mobility in soil No information available
Hazard to the ozone layer No information available
Mobility

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	II
Marine pollutant	Yes

IMDG

UN number	UN1090
Proper shipping name:	Acetone
UN classfication	3
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Yes
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

IATA

UN number	UN1090
Proper shipping name:	Acetone
UN classfication	3
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous Substance	Yes

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS	-
TSCA	-

Japanese regulations

Fire Service Act	Category IV, Class I petroleums, dangerous grade 2 water-soluble
Poisonous and Deleterious Substances Control Law	Deleterious Substances 2nd. 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 No.9)No.17 Class 2 Organic Solvents Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1) Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Regulations for the carriage and storage of dangerous	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship	
Civil Aeronautics Law	Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)
Marine Pollution Prevention Law	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable
Export Trade Control Order	Appendix 2 Export Approval Item
Narcotics and Psychotropics Control Law	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Acetone 67-64-1 (<100)	-	Applicable	-
Ethylthiomethon 298-04-4 (0.002)	Applicable	-	-
Dimethoate 60-51-5 (0.002)	Applicable	-	-
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7 (0.002)	Applicable	-	-
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester 2104-64-5 (0.002)	Applicable	-	-
Isofenphos 25311-71-1 (0.002)	Applicable	-	-
Methidathion 950-37-8 (0.002)	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

Record of SDS revisions

The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. 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