

SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision Date 23-Mar-2021
 Version 4.02

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 and restrictions on use For research use only
 Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)

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 tract irritation, Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 central nervous system, respiratory system,	
Short-term (acute) hazardous to the aquatic environment	Category 1
Long-term (chronic) hazardous to the aquatic environment	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/sparks/open flames/hot surfaces. — 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	公表	67-64-1
Ethylthiomethon	0.002	274.40	N/A	2-(7)-79	298-04-4
Procymidone	0.002	284.14	(5)-5250	公表	32809-16-8
Diazinon	0.002	304.35	(5)-923	公表	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-p henylethyl)-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	公表	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	公表	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
Malathion	0.002	330.36	(2)-1963	公表	121-75-5
Fenitrothion	0.002	277.23	(3)-2616	4-(9)-232	122-14-5
2-Chloro-4,6-bis(ethylam ino)-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-diethylp henyl)-N-(methoxymethy l)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'-nitrodi phenyl 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	公表	1912-24-9
MBPMC	0.002	277.40	(3)-2208	公表	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	公表	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	公表	2597-03-7
Iprobenfos	0.002	288.34	N/A	4-(9)-133	26087-47-8
MIPC	0.002	193.24	(3)-2212,(3)-2211	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

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 contaminant and methods and materials for cleaning up

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

Recovery, 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

Hand protection

Impermeable protective gloves

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 monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Halides, Phosphorus oxide, Sulfur oxides (SO _x)

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)	0.015mg/L
Dimethoate	255 mg/kg (Rat)	310 mg/kg (Mouse)	> 0.9 mg/L (Rat) 4 h
2,2-Dichlorovinyl Dimethyl Phosphate	56 mg/kg (Rat) 17 mg/kg (Rat)	75 mg/kg (Rat) 107 mg/kg (Rabbit)	15 mg/m ³ (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 4 h(rat)
Methidathion	20 mg/kg (Rat) 40 mg/kg (Rat)	> 4000 mg/kg (Rat) 25 mg/kg (Rat) 196 mg/kg (Rabbit)	50 mg/m ³ (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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
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	vapor- source information	source information	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 mutagenicity 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
Ethylthiomethon	N/A	LC50: <i>Lepomis macrochirus</i> 0.094 - 0.136 mg/L 96 h	EC50: <i>Daphnia magna</i> 0.033 mg/L 48 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 0.75 ppb 48 h
Dimethoate	EC50:Pseudokirchneriella subcapitata 282.3 mg/L 72 h EC50:Pseudokirchneriella subcapitata 35 mg/L 72 h EC50:Pseudokirchneriella subcapitata 36 mg/L 96 h static	LC50:Oncorhynchus mykiss 4.1 - 9.3 mg/L 96 h LC50:Cyprinus carpio 26.11 mg/L 96 h LC50:Poecilia reticulata 340 mg/L 96 h LC50:Lepomis macrochirus 6 mg/L 96 h	EC50 : Daphnia magna 2 mg/L
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	N/A	EC50 : Daphnia magna 1.1 µg/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 classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant	Yes

IMDG

UN number	UN1090
Proper shipping name:	Acetone
UN classification	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 classification	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 Order 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) Priority Assessment Chemical Substances (Law Article 2, Para.5)
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	
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 Notification 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	Not applicable

**Register Law
Export Trade Control Order
Narcotics and Psychotropics
Control Law**

Appendix 2

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law
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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
 etc

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet