

SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 28-Feb-2024
 Revision Number 1.08

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Organophosphorus Pesticide Mixture Standard Solution FA-2 (each 20µg/mL)
Product Code	159-02941

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, nervous system

Acute aquatic toxicity

Category 3

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

H402 - Harmful to aquatic life

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, respiratory system, nervous 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 suitable extinguishing media for extinction

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	96	58.08	(2)-542	*	67-64-1
Hexane	4	86.18	(2)-6	*	110-54-3
Fensulfothion	0.0020	308.35	N/A	N/A	115-90-2
Fenitrothion	0.0020	277.23	(3)-2616	4-(9)-232	122-14-5
Terbufos	0.0020	288.43	N/A	N/A	13071-79-9
Ethoprophos	0.0020	242.34	N/A	N/A	13194-48-4
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	0.0020	323.30	(3)-2617	4-(3)-17	2104-64-5
Isofenphos	0.0020	345.39	(3)-3683	4-(9)-258	25311-71-1
Formothion	0.0020	257.27	N/A	2-(7)-83	2540-82-1
Phenthoate	0.0020	320.36	(3)-2615	*	2597-03-7
Chlorpyrifos	0.0020	350.59	(5)-3724	8-(1)-1042	2921-88-2
Phorate	0.0020	260.38	N/A	N/A	298-02-2
Prothiofos	0.0020	345.25	N/A	4-(9)-94	34643-46-4
Sulprofos	0.0020	322.45	N/A	4-(9)-253	35400-43-2
Butamifos	0.0020	332.36	N/A	N/A	36335-67-8
Etrimfos	0.0020	292.29	N/A	8-(2)-1064	38260-54-7
MPP	0.0020	278.33	N/A	4-(9)-130	55-38-9
Tolclofos-methyl	0.0020	301.13	N/A	4-(9)-127	57018-04-9
Dimethoate	0.0020	229.26	(2)-1962	*	60-51-5
Thiometon	0.0020	246.35	N/A	2-(7)-78	640-15-3
Phosmet	0.0020	317.32	N/A	8-(1)-1257	732-11-6

Pyraclufos	0.0020	360.80	N/A	N/A	77458-01-6
Methidathion	0.0020	302.33	N/A	8-(7)-172	950-37-8
Dichlofenthion	0.0020	315.15	(3)-4112	4-(9)-190	97-17-6

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

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

No information available

Specific hazards arising from the chemical product

Vapors may form explosive mixture 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**

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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Acetone 67-64-1	TWA: 200 ppm OEL TWA: 475 mg/m ³ OEL ISHL/ACL: 500 ppm	ISHL/ACL: 500 ppm	STEL: 500 ppm TWA: 250 ppm
Hexane 110-54-3	TWA: 40 ppm OEL TWA: 140 mg/m ³ OEL Skin ISHL/ACL: 40 ppm	ISHL/ACL: 40 ppm	TWA: 50 ppm Skin
Fensulfothion 115-90-2	N/A	N/A	TWA: 0.01 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 fraction and vapor 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 (JIS T 8147)

Skin and body protection

Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Since data of the mixture is not available, data except for the appearance is described as a Acetone.

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 vol%
Lower:	2.15vol%
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 , ether : miscible .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	24.7kPa
Specific Gravity / Relative density	0.792
Vapour density	2.0 (air=1)
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 (CO₂)

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)
Hexane	15800 mg/kg (Rat)	3297 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Fensulfothion	1.8 - 2.3 mg/kg (Rat)	3.5 mg/kg (Rat)	0.0295 mg/L (Rat) 4 h
Ethoprophos	33 mg/kg (Rat) 34 mg/kg (Rat)	8.5 mg/kg (Rabbit) 26 mg/kg (Rabbit) 26 mg/kg (Rat)	0.250 mg/L (Rat) 4 h 0.123 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
Dimethoate	245 mg/kg (Rat)	> 2000 mg/kg (Rat)	1.68 mg/L (Rat) 4 h
Thiometon	40 mg/kg (Rat) 120 mg/kg (Rat)	> 1000 mg/kg (Rat) 179 mg/kg (Rat)	N/A

Phosmet	121.3 mg/kg (Rat) 92.5 mg/kg (Rat)	> 3160 mg/kg (Rabbit) 3160 mg/kg (Rabbit) 1326 mg/kg (Rat)	54 mg/m ³ (Rat) 4 h > 0.152 mg/L (Rat) 4 h
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.
Hexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	Based on the NITE GHS classification results.
Methidathion	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.

Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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.
Hexane	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.
Phosmet	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
Hexane	N/A	LC50:Pimephales promelas 2.1 - 2.98 mg/L 96 h	LC50 : Daphnia magna 3.88 mg/L 48 h
Fensulfothion	N/A	TLm : Lepomis macrochirus 0.12 mg/L 96 h	N/A
Ethoprophos	N/A	LC50 : Lagodon rhomboides 0.0063 mg/L 96 h	LC50 : Mysidopsis bahia 0.02 ppm 96 h
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester	N/A	LC50:Lepomis macrochirus 0.060 - 0.110 mg/L 96 h	EC50 :Daphnia magna 0.00006 mg/L 26 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	
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
Dimethoate	ErC50 : Pseudokirchneriella subcapitata 280 mg/L 72 h	N/A	EC50 : Daphnia magna 2 mg a.i./L 48 h
Thiometon	N/A	LC50 : Oncorhynchus mykiss 8 mg/L 96 h	N/A
Phosmet	N/A	LC50:Lepomis macrochirus 0.015 - 0.033 mg/L 96 h LC50:Oncorhynchus mykiss 0.066 - 0.167 mg/L 96 h LC50:Oncorhynchus mykiss 0.105 - 0.136 mg/L 96 h LC50:Oncorhynchus mykiss 0.46 - 0.68 mg/L 96 h LC50:Cyprinus carpio 20 - 26 mg/L 96 h LC50:Pimephales promelas 4.676 - 11.395 mg/L 96 h LC50:Lepomis macrochirus 0.08 mg/L 96 h	EC50:Daphnia magna 0.019 - 0.04 mg/L 48 h EC50:Daphnia magna 0.042 - 0.084 mg/L 48 h
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.
Hexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fensulfothion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	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.
Dimethoate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Thiometon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosmet	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
Bioaccumulative potential
Mobility in soil

No information available
No information available
No information available

Hazard to the ozone layer 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 classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant	Not applicable

IMDG

UN number	UN1090
Proper shipping name:	Acetone
UN classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Not applicable
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	Not applicable

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 2nd. Grade
Industrial Safety and Health Act	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) Notifiable Substances (Law Art.57-2) 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)
Industrial Safety and Health Act (2024-)	【2024.4.1~】 Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Act on the Evaluation of Chemical Substances and	Priority Assessment Chemical Substances (Law Article 2, Para.5)

Regulation of Their Manufacture, etc Regulations for the carriage and storage of dangerous goods in ship Civil Aeronautics Law	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Marine Pollution Prevention Law	Flammable Liquids (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer Register Law (2023.4.1-)	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z Class 1
Class 1 - No.	392
Export Trade Control Order Narcotics and Psychotropics Control Law	Appendix 2 Export Approval Item
Air Pollution Control Law	Hazardous Air Pollutants

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 (96)	-	Applicable	-
Hexane 110-54-3 (4)	-	Applicable	Applicable
Fensulfothion 115-90-2 (0.0020)	Applicable	-	-
Ethoprophos 13194-48-4 (0.0020)	Applicable	-	-
Phenylphosphonothioic acid O-ethyl O-(4-nitrophenyl)ester 2104-64-5 (0.0020)	Applicable	-	-
Isufenphos 25311-71-1 (0.0020)	Applicable	-	-
Dimethoate 60-51-5 (0.0020)	Applicable	-	-
Thiometon 640-15-3 (0.0020)	Applicable	-	-
Phosmet 732-11-6 (0.0020)	Applicable	-	-
Methidathion 950-37-8 (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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
 etc

Record of SDS revisions

The following contents were revised. 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

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

End of Safety Data Sheet