

## SAFETY DATA SHEET

According to JIS Z 7253:2019  
Issue Date 29-May-2025  
Revision Number 1.07

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Organophosphorus Pesticide Mixture Standard Solution FA-1 (each 20µg/mL)
Product Code	152-02931

**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

## Skin corrosion/irritation

Category 2

## Serious eye damage/eye irritation

Category 2A

## Reproductive Toxicity

Category 2

## Specific target organ toxicity (single exposure)

Category 2, Category 3

Category 2 blood vessels

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  
H315 - Causes skin irritation  
H319 - Causes serious 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  
H371 - May cause damage to the following organs: blood vessels

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 skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- 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
- 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	80	58.08	(2)-542	*	67-64-1
Cyclohexane	20	84.16	(3)-2233	2-(4)-1340	110-82-7
Pyridaphenthion	0.0020 w/v%	340.33	(5)-5598	N/A	119-12-0
Malathion	0.0020 w/v%	330.36	(2)-1963	*	121-75-5
Cyanofenphos	0.0020 w/v%	303.32	(3)-2624	*	13067-93-1
Quinalphos	0.0020 w/v%	298.30	N/A	8-(2)-1065	13593-03-8
Edifenphos	0.0020 w/v%	310.37	N/A	4-(9)-91	17109-49-8
alpha-Chlorfenvinphos	0.0020 w/v%	359.57	N/A	N/A	18708-86-6
(Z)-chlorfenvinphos	0.0020 w/v%	359.57	N/A	N/A	18708-87-7
Phosalone	0.0020 w/v%	367.81	N/A	8-(7)-170,8-(7)-490	2310-17-0
Iprobenfos	0.0020 w/v%	288.34	N/A	4-(9)-133	26087-47-8
CYAP	0.0020 w/v%	243.22	(3)-2625	*	2636-26-2
Pirimiphos-methyl	0.0020 w/v%	305.33	N/A	N/A	29232-93-7
Acephate	0.0020 w/v%	183.17	N/A	2-(3)-168	30560-19-1

Diazinon	0.0020 w/v%	304.35	(5)-923	*	333-41-5
Salithion	0.0020 w/v%	216.19	(5)-3864	8-(9)-24	3811-49-2
Profenofos	0.0020 w/v%	373.63	N/A	4-(9)-254	41198-08-7
Chlorpyrifos-methyl	0.0020 w/v%	322.53	N/A	8-(1)-1943	5598-13-0
Ethion	0.0020 w/v%	384.48	N/A	2-(7)-259	563-12-2
2,2-Dichlorovinyl Dimethyl Phosphate	0.0020 w/v%	220.98	(2)-3224	2-(7)-181	62-73-7
(Z)-Dimethylvinphos	0.0020 w/v%	331.52	N/A	4-(9)-145	67628-93-7
(E)-Dimethylvinphos	0.0020 w/v%	331.52	N/A	4-(9)-145	71363-52-5
Propaphos	0.0020 w/v%	304.34	N/A	N/A	7292-16-2
Cadusafos	0.0020 w/v%	270.39	N/A	2-(7)-313	95465-99-9
Fosthiazate	0.0020 w/v%	283.35	N/A	8-(7)-864	98886-44-3
Methamidophos	0.0020 w/v%	141.13	N/A	N/A	10265-92-6

**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

Carbon dioxide (CO<sub>2</sub>), 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 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use with local exhaust ventilation. 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 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 <sup>3</sup> )	ISHL/ACL: 500 ppm	STEL: 500 ppm TWA: 750 ppm
Cyclohexane 110-82-7	TWA: 150 ppm OEL TWA: 520 mg/m <sup>3</sup> OEL	N/A	TWA: 100 ppm
Pyridaphenthion 119-12-0	TWA: 0.2 mg/m <sup>3</sup> OEL Skin	N/A	N/A
Malathion 121-75-5	TWA: 10 mg/m <sup>3</sup> OEL Skin	N/A	TWA: 1 mg/m <sup>3</sup> inhalable fraction and vapor Skin
Diazinon 333-41-5	TWA: 0.1 mg/m <sup>3</sup> OEL Skin	N/A	TWA: 0.01 mg/m <sup>3</sup> inhalable fraction and vapor Skin
Ethion 563-12-2	N/A	N/A	TWA: 0.05 mg/m <sup>3</sup> inhalable fraction and vapor Skin
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7	ISHL/ACL: 0.1 mg/m <sup>3</sup>	ISHL/ACL: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> inhalable fraction and vapor Skin
Cadusafos	N/A	N/A	TWA: 0.001 mg/m <sup>3</sup> inhalable

95465-99-9			fraction and vapor Skin
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Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Cyclohexane 110-82-7	100 ppm	N/A
Diazinon 333-41-5	0.01 mg/m <sup>3</sup>	N/A

**Personal protective equipment**

<b>Respiratory protection</b>	gas mask for organic gas ( JIS T 8152 )
<b>Hand protection</b>	chemical protective gloves ( JIS T 8116 )
<b>Eye protection</b>	protective eyeglasses or chemical safety goggles (JIS T 8147)
<b>Skin and body protection</b>	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**

<b>Color</b>	colorless
<b>Turbidity</b>	clear
<b>Appearance</b>	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:** 13vol%

**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 : freely soluble .

**n-Octanol/water partition coefficient:(log Pow)**

no data available

**Vapour pressure**

24.7 kPa

**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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides (SO<sub>x</sub>), Phosphorus oxide, Halides

## Section 11: TOXICOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN)

[https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\\_search/srhInput](https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput)

### 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)
Cyclohexane	> 5000 mg/kg ( Rat )	2000 mg/kg ( Rat )	> 9500 ppmV ( Rat ) 4h
Pyridaphenthion	813 mg/kg ( Rat ) 424 mg/kg ( Rat )	2100 mg/kg ( Rat )	1100 mg/m <sup>3</sup> ( Rat ) 4 h
Malathon	4,061 mg/kg ( Rat, Female ) 5,400 mg/kg ( Rat, Male )	>2,000 mg/kg ( Rat )	5.2 mg/kg ( Rat ) 4 h
Cyanofenphos	28.5 mg/kg ( Rat ) 28500 µg/kg ( Rat )	N/A	N/A
Quinalphos	26 mg/kg ( Rat )	N/A	N/A
Edifenphos	100 mg/kg ( Rat )	700 - 800 mg/kg ( Rat )	0.65 mg/L ( Rat ) 4 h 650 mg/m <sup>3</sup> ( Rat ) 4 h
Phosalone	85 mg/kg ( Rat )	> 1000 mg/kg ( Rabbit ) 390 mg/kg ( Rat )	N/A
Iprobenfos	550 mg/kg ( Rat ) 640 mg/kg ( Rat )	> 4000 mg/kg ( Rat )	> 5.15 mg/L (Male) 4 h > 5.15 mg/L (Female) 4 h
CYAP	580 mg/kg ( Rat )	560 mg/kg ( Rat )	1.09 mg/L ( Rat ) 4 h
Pirimiphos-methyl	1250 mg/kg ( Rat )	> 2000 mg/kg ( Rat ) > 2000 mg/kg ( Rabbit )	> 4.7 mg/L ( Rat ) 4 h
Acephate	866 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit ) > 2000 mg/kg ( Rat )	> 6.26 mg/L ( Rat )
Diazinon	485 mg/kg ( Rat )	3600 mg/kg ( Rabbit )	3.10 mg/L ( Rat ) 4 h
Salithion	102 mg/kg ( Rat )	400 mg/kg ( Rat )	N/A
Profenofos	358 mg/kg ( Rat ) 510 mg/kg ( Rat )	> 4000 mg/kg ( Rat ) 1610 mg/kg ( Rat ) 192 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 4 h
Chlorpyriphos-methyl	1828 mg/kg ( Rat )	> 2000 mg/kg ( Rat ) > 2 g/kg ( Rabbit ) 3713 mg/kg ( Rat )	> 670 mg/m <sup>3</sup> ( Rat ) 4 h
Ethion	21 mg/kg ( Rat )	62 mg/kg ( Rat )	= 0.45 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
Propaphos	72.5 mg/kg ( Rat )	72.0 mg/kg ( Rat )	0.039 mg/L ( Rat ) mist
Cadusafos	30 mg/kg ( Rat )	11 mg/kg ( Rabbit )	32 mg/m <sup>3</sup> ( Rat ) 4 h
Fosthiazate	57 mg/kg ( Rat )	861 mg/kg ( Rat )	0.558 mg/L ( Rat ) 4 h
Methamidophos	21 mg/kg ( Rat )	118 mg/kg ( Rat )	0.162 mg/L ( Rat ) 4 h ( mist )

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.
Cyclohexane	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification results.
Pyridaphenthion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyriphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethion	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.
Propaphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Acephate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyriphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethion	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.
Propaphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyriphos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.



Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.

Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	Based on the NITE GHS classification results.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
Acetone	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyriphos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Malathon 121-75-5	N/A	Group 2A	N/A	Group 2B
Pirimiphos-methyl 29232-93-7	N/A	Group 2A	N/A	N/A
Diazinon 333-41-5	N/A	Group 2A	N/A	Group 2B
Salithion 3811-49-2	N/A	N/A	N/A	-
Chlorpyriphos-methyl 5598-13-0	N/A	N/A	N/A	-
Ethion 563-12-2	N/A	N/A	N/A	-
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7	N/A	Group 2B	N/A	Group 2B

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.

Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	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.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	Based on the NITE GHS classification results.

## Aspiration hazard

Chemical Name	Aspiration Hazard source information
Acetone	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorpyrifos-methyl	Based on the NITE GHS classification results.
Ethion	Based on the NITE GHS classification results.
2,2-Dichlorovinyl Dimethyl Phosphate	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.
Methamidophos	Based on the NITE GHS classification results.

## Section 12: ECOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN)  
[https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\\_search/srhInput](https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput)

## Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	N/A	LC50 : Fathead minnow >100 mg/L 96 h	N/A
Cyclohexane	EC50 : <i>Pseudokirchneriella subcapitata</i> 0.94 mg/L 72 h	LC50 : <i>Pimephales promelas</i> 3.96 - 5.18 mg/L 96 h LC50 : <i>Pimephales promelas</i> 23.03 - 42.07 mg/L 96 h LC50 : <i>Lepomis macrochirus</i> 24.99 - 44.69 mg/L 96 h LC50 : <i>Poecilia reticulata</i> 48.87 - 68.76 mg/L 96 h	EC50 : <i>Daphnia magna</i> 0.9 mg/mL 48 h
Pyridaphenthion	N/A	LC50 : <i>Oncorhynchus mykiss</i> 7.5 mg/L 96 h	EC50 : <i>Daphnia magna</i> 0.00051 mg/L 48 h
Malathon	EC50 : <i>Pseudokirchneriella subcapitata</i> 4.06 mg/L 72 h	LC50 : <i>Pimephales promelas</i> 12.3 - 16.1 mg/L 96 h LC50 : <i>Pimephales promelas</i> 6.45 - 11.5 mg/L 96 h LC50 : <i>Pimephales promelas</i> 10.1 mg/L 96 h LC50 : <i>Cyprinus carpio</i> 0.24 - 1.24 mg/L 96 h LC50 : <i>Cyprinus carpio</i> 0.085 mg/L 96 h LC50 : <i>Cyprinus carpio</i> 0.002 mg/L 96 h LC50 : <i>Lepomis macrochirus</i> 0.34 mg/L 96 h	EC50 : <i>Daphnia magna</i> 1.0 ppb 48 h

		<i>LC50 : Lepomis macrochirus</i> 0.010 - 0.088 mg/L 96 h <i>LC50 : Lepomis macrochirus</i> 0.089 mg/L 96 h <i>LC50 : Oncorhynchus mykiss</i> 0.028 mg/L 96 h <i>LC50 : Oncorhynchus mykiss</i> 0.094 - 0.146 mg/L 96 h <i>LC50 : Oncorhynchus mykiss</i> 0.0022 - 0.0074 mg/L 96 h <i>LC50 : Oryzias latipes</i> 9.7 mg/L 96 h <i>LC50 : Poecilia reticulata</i> 1.2 mg/L 96 h <i>LC50 : Poecilia reticulata</i> 3.1 mg/L 96 h	
Phosalone	N/A	<i>LC50 : Lepomis macrochirus</i> 100 µg/L 96 h	N/A
Iprobenfos	N/A	N/A	<i>EC50 : Daphnia magna</i> 0.859 mg/L 48 h
CYAP	N/A	N/A	<i>EC50 : Daphnia magna</i> 0.097 mg/L 48 h
Pirimiphos-methyl	N/A	<i>LC50 : Cyprinus carpio</i> 0.679 mg a.i./L 96 h	<i>EC50 : Daphnia magna</i> 0.000314 mg a.i./L 48 h
Acephate	N/A	<i>LC50 : Oncorhynchus mykiss</i> 11 mg/L 96 h <i>LC50 : Pimephales promelas</i> >10 mg/L 96 h <i>LC50 : Lepomis macrochirus</i> >10 mg/L 96 h	<i>EC50 : Daphnia magna</i> 55 mg a.i./L 48 h
Diazinon	N/A	<i>LC50 : Pimephales promelas</i> 0.4 - 0.8 mg/L 96 h <i>LC50 : Pimephales promelas</i> 4.7 mg/L 96 h <i>LC50 : Cyprinus carpio</i> 3.43 mg/L 96 h <i>LC50 : Cyprinus carpio</i> 0.000072 mg/L 96 h <i>LC50 : Poecilia reticulata</i> 4 mg/L 96 h <i>LC50 : Poecilia reticulata</i> 0.8 mg/L 96 h <i>LC50 : Poecilia reticulata</i> 3 mg/L 96 h <i>LC50 : Lepomis macrochirus</i> 0.022 mg/L 96 h <i>LC50 : Oncorhynchus mykiss</i> 0.09 mg/L 96 h <i>LC50 : Oncorhynchus mykiss</i> 2.3 mg/L 96 h <i>LC50 : Pimephales promelas</i> 3.4 - 5.2 mg/L 96 h <i>LC50 : Lepomis macrochirus</i> 0.31 - 0.62 mg/L 96 h	<i>EC50 : Gammarus fasciatus</i> 0.20 ppb
Profenofos	N/A	N/A	<i>EC50 : Daphnia magna</i> 0.84 µg/L 48 h
Chlorpyrifos-methyl	N/A	N/A	<i>EC50 : Daphnia magna</i> 0.62 µg/L 48 h
Ethion	N/A	N/A	<i>EC50 : Daphnia magna</i> 0.056 ppb 48 h

2,2-Dichlorovinyl Dimethyl Phosphate	N/A	N/A	EC50 : <i>Daphnia magna</i> 0.00007 mg/L 48 h
Cadusafos	N/A	LC50 : <i>Cyprinus carpio</i> 0.246 mg a.i./L 96 h	EC50 : <i>Daphnia magna</i> 0.00257 mg a.i./L 48 h
Fosthiazate	ErC50 : <i>Chlorophyta</i> > 100 mg/L	N/A	N/A
Methamidophos	EC50 : <i>Desmodesmus subspicatus</i> 178 mg/L 96 h	LC50 : <i>Leuciscus idus</i> 34 mg/L 96 h LC50 : <i>Oncorhynchus mykiss</i> 40 mg/L 96 h	EC50 : <i>Daphnia magna</i> 0.014 - 0.7 mg/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.
Cyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pyridaphenthion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Malathon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cyanofenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Quinalphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Edifenphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phosalone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Iprobenfos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
CYAP	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Acephate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Salithion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyriphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethion	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.
Propaphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fosthiazate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methamidophos	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  
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	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (Acetone and Cyclohexane Mixture)
UN classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant	Yes

#### IMDG

UN number	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (Acetone and Cyclohexane Mixture)
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	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (Acetone and Cyclohexane Mixture)
UN classification	3
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous Substance	Yes

### Section 15: REGULATORY INFORMATION

#### Japanese regulations

<b>Fire Service Act</b>	Category IV, Class I petroleums, dangerous grade 2 water-soluble
<b>Poisonous and Deleterious Substances Control Law</b>	Deleterious Substances 2nd. Grade
<b>Industrial Safety and Health Act</b>	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) Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1) Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
<b>Regulations for the carriage and storage of dangerous goods in ship</b>	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
<b>Civil Aeronautics Law</b>	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 Y  
**Pollutant Release and Transfer Register Law** Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z  
**(2023.4.1-)** Class 1  
**Class 1 - No.** 629  
**Narcotics and Psychotropics 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 ( 80 )	-	Applicable	-
Cyclohexane 110-82-7 ( 20 )	-	Applicable	Applicable
Cyanofenphos 13067-93-1 ( 0.0020 w/v% )	Applicable	-	-
Quinalphos 13593-03-8 ( 0.0020 w/v% )	Applicable	-	-
alpha-Chlorfenvinphos 18708-86-6 ( 0.0020 w/v% )	Applicable	-	-
(Z)-chlorfenvinphos 18708-87-7 ( 0.0020 w/v% )	Applicable	-	-
Salithion 3811-49-2 ( 0.0020 w/v% )	Applicable	-	-
Ethion 563-12-2 ( 0.0020 w/v% )	Applicable	-	-
2,2-Dichlorovinyl Dimethyl Phosphate 62-73-7 ( 0.0020 w/v% )	Applicable	-	-
(Z)-Dimethylvinphos 67628-93-7 ( 0.0020 w/v% )	Applicable	-	-
(E)-Dimethylvinphos 71363-52-5 ( 0.0020 w/v% )	Applicable	-	-
Propaphos 7292-16-2 ( 0.0020 w/v% )	Applicable	-	-
Cadusafos 95465-99-9 ( 0.0020 w/v% )	Applicable	-	-

## Section 16: OTHER INFORMATION

### Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)  
[https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\\_search/srhInput](https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput)  
 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. Hazards identification. Composition/information on ingredients. Fire fighting measures. Handling and storage. Exposure controls/personal protection. Stability and reactivity. Toxicological information. Ecological information. Transport 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**