

## SAFETY DATA SHEET

According to JIS Z 7253:2019  
**Revision date** 17-Jan-2024  
 Revision Number 2.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

|                     |  |
|---------------------|--|
| <b>Product Name</b> | Organophosphorus Pesticide Mixture Standard Solution FA-3<br>(each 20µg/mL Acetone Solution) |
| <b>Product Code</b> | 156-02951  |

|                                   |   |
|-----------------------------------|---|
| <b>Supplier</b>                   | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-2029 |
| <b>Emergency telephone number</b> | +81-6-6203-3741 / +81-3-3270-8571   |
| <b>Recommended uses</b>           | For research use only<br>Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)   |
| <b>Restrictions on use</b>        | Seek expert judgment when using for purposes other than those recommended.  |

## Section 2: HAZARDS IDENTIFICATION

## GHS classification

## Classification of the substance or mixture

## Flammable liquids

Category 2

## Serious eye damage/eye irritation

Category 2B

## Reproductive Toxicity

Category 2

## Specific target organ toxicity (single exposure)

Category 3

Category 3 Respiratory irritation, Narcotic effects

## Specific target organ toxicity (repeated exposure)

Category 1

Category 1 central nervous system, respiratory system

## Acute aquatic toxicity

Category 2

## Chronic 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

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

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

## Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

**Precautionary statements-(Response)**

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- In case of fire: Use 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         | <100         | 58.08            | (2)-542  | *         | 67-64-1    |
| Monocrotophos   | 0.0020 w/v % | 223.16           | N/A      | 2-(7)-264 | 6923-22-4  |
| Azinphos-methyl | 0.0020 w/v % | 317.32           | N/A      | N/A       | 86-50-0    |
| Omethoate       | 0.0020 w/v % | 213.19           | N/A      | N/A       | 1113-02-6  |
| Isoxathion      | 0.0020 w/v % | 313.31           | N/A      | N/A       | 18854-01-8 |
| Fenamiphos      | 0.0020 w/v % | 303.36           | (3)-4292 | *         | 22224-92-6 |
| Vamidothion     | 0.0020 w/v % | 287.34           | N/A      | 2-(7)-166 | 2275-23-2  |
| Azinphos-ethyl  | 0.0020 w/v % | 345.38           | N/A      | N/A       | 2642-71-9  |
| Ethylthiomethon | 0.0020 w/v % | 274.40           | N/A      | 2-(7)-79  | 298-04-4   |
| Bromophos-ethyl | 0.0020 w/v % | 394.05           | N/A      | N/A       | 4824-78-6  |
| Coumaphos       | 0.0020 w/v % | 362.77           | (9)-554  | *         | 56-72-4    |

**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**

Do not use straight streams

**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**

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

**Precautions**

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

**Safety handling precautions**

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

**Storage****Safe storage conditions****Storage conditions**

Container protected from light, and store tightly closed in freezer (-20°C). Packed with an inert gas. Store locked up.

**Safe packaging material**

Ampoule

**Incompatible substances**

Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls**

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

**Exposure limits**

| Chemical Name               | JSOH (Japan)                  | ISHL (Japan)      | ACGIH   |
|-----------------------------|-------------------------------|-------------------|---|
| Acetone<br>67-64-1          | 200ppm(470mg/m <sup>3</sup> ) | ISHL/ACL: 500 ppm | STEL: 500 ppm<br>TWA: 250 ppm                                       |
| Monocrotophos<br>6923-22-4  | N/A                           | N/A               | TWA: 0.05 mg/m <sup>3</sup> inhalable<br>fraction and vapor<br>Skin |
| Azinphos-methyl<br>86-50-0  | N/A                           | N/A               | TWA: 0.2 mg/m <sup>3</sup> inhalable<br>fraction and vapor<br>Skin  |
| Fenamiphos<br>22224-92-6    | N/A                           | N/A               | TWA: 0.05 mg/m <sup>3</sup> inhalable<br>fraction and vapor<br>Skin |
| Ethylthiomethon<br>298-04-4 | N/A                           | N/A               | TWA: 0.05 mg/m <sup>3</sup> inhalable<br>fraction and vapor<br>Skin |
| Coumaphos<br>56-72-4        | N/A                           | N/A               | TWA: 0.05 mg/m <sup>3</sup> inhalable<br>fraction and vapor<br>Skin |

**Personal protective equipment****Respiratory protection**

gas mask for organic gas ( JIS T 8152 )

**Hand protection**

chemical protective gloves ( JIS T 8116 )

**Eye protection**

protective eyeglasses or chemical safety goggles

**Skin and body protection**

Long-sleeved work clothes

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form****Color**

colorless

**Turbidity**

clear

**Appearance**

liquid

**Odor**

characteristic odor

**Melting point/freezing point**

-95.3 °C

**Boiling point, initial boiling point and boiling range**

56 °C

**Flammability**

Highly flammable liquid and vapor

**Evaporation rate:**

no data available

**Flammability (solid, gas):**

no data available

**Upper/lower flammability or explosive limits**

|   |  |
|---|--|
| Upper:  | 13.0 vol%  |
| Lower:  | 2.15 vol%  |
| Flash point                                     | -18 °C   |
| Auto-ignition temperature:                      | 538 °C   |
| Decomposition temperature:                      | no data available                                  |
| pH  | no data available                                  |
| Viscosity (coefficient of viscosity)            | no data available                                  |
| Dynamic viscosity                               | no data available                                  |
| Solubilities                                    | water , Ethanol , Diethyl ether : freely soluble . |
| n-Octanol/water partition coefficient:(log Pow) | -0.24  |
| Vapour pressure                                 | 24.7   |
| Specific Gravity / Relative density             | 0.789 - 0.792 g/mL                                 |
| Vapour density                                  | 2.0  |
| Particle characteristics                        | no data available                                  |

## Section 10: STABILITY AND REACTIVITY

### Stability

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

### Hazardous reactions

None under normal processing

### Conditions to avoid

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

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

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

## 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)         |
| Monocrotophos   | 14 mg/kg ( Rat )                       | 112 mg/kg ( Rat )                         | 0.0408 mg/L ( Rat ) 4 h              |
| Azinphos-methyl | 16 mg/kg ( Rat )                       | 170 mg/kg ( Rat )                         | 0.132 mg/L ( Rat ) 4 h               |
| Omethoate       | 30 mg/kg ( Rat )                       | 865 mg/kg ( Rat )<br>700 mg/kg ( Rat )    | > 1500 mg/m <sup>3</sup> ( Rat ) 1 h |
| Isoxathion      | 112 mg/kg ( Rat )                      | > 2000 mg/kg ( Rat )<br>450 mg/kg ( Rat ) | 20 mg/L ( Rat )                      |
| Fenamiphos      | 6.0 mg/kg ( Rat )                      | 179 mg / kg ( Rabbit )                    | 0.091 - 0.100 mg/L ( Rat ) 4 h       |
| Vamidotion      | 64 mg/kg ( Rat )                       | 1160 mg/kg ( Rabbit )                     | 1.73 mg/L ( Rat ) 4 h( mist )        |
| Azinphos-ethyl  | 7 mg/kg ( Rat )                        | 250 mg/kg ( Rat )                         | 0.15 mg/L ( Rat ) 4 h                |
| Ethylthiomethon | 2.6 mg/kg ( Rat )<br>4.2 mg/kg ( Rat ) | 7.3 mg/kg ( Rat )<br>6 mg/kg ( Rat )      | 0.015 mg/L                           |
| Bromophos-ethyl | 52 mg/kg (Rat)                         | 500 mg/kg ( Rabbit )<br>1 g/kg ( Rat )    | N/A                                  |
| Coumaphos       | 13 mg/kg (Rat)                         | 500 mg/kg (Rabbit)                        | N/A                                  |

| 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.     |
| Monocrotophos   | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results.     |
| Azinphos-methyl | Based on the NITE GHS                         | Based on the NITE GHS                         | Based on the NITE GHS                             |

|                 |   |   |   |
|-----------------|---|---|---|
|                 | classification results.                       | classification results.                       | classification results.                       |
| Isoxathion      | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Vamidothion     | 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. |
| Coumaphos       | 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.       |
| Monocrotophos   | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.       | Based on the NITE GHS classification results.       |
| Azinphos-methyl | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.       | Based on the NITE GHS classification results.       |
| Isoxathion      | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.       | Based on the NITE GHS classification results.       |
| Fenamiphos      | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.       | Based on the NITE GHS classification results.       |
| Vamidothion     | 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.       |
| Coumaphos       | 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. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidothion     | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | 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.    |
| Monocrotophos   | Based on the NITE GHS classification results.    |
| Azinphos-methyl | Based on the NITE GHS classification results.    |
| Isoxathion      | Based on the NITE GHS classification results.    |
| Fenamiphos      | Based on the NITE GHS classification results.    |
| Vamidothion     | Based on the NITE GHS classification results.    |
| Ethylthiomethon | Based on the NITE GHS classification results.    |
| Coumaphos       | 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.        |
| Monocrotophos   | Based on the NITE GHS classification results.        |
| Azinphos-methyl | Based on the NITE GHS classification results.        |
| Isoxathion      | Based on the NITE GHS classification results.        |
| Fenamiphos      | Based on the NITE GHS classification results.        |
| Vamidothion     | Based on the NITE GHS classification results.        |
| Ethylthiomethon | Based on the NITE GHS classification results.        |
| Coumaphos       | 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. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidothion     | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | Based on the NITE GHS classification results. |

**Carcinogenicity**

| Chemical Name   | Carcinogenicity source information            |
|-----------------|---|
| Acetone         | Based on the NITE GHS classification results. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidothion     | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | Based on the NITE GHS classification results. |

| Chemical Name                | NTP | IARC     | ACGIH | JSOH (Japan) |
|------------------------------|-----|----------|-------|--------------|
| Monocrotophos<br>6923-22-4   |     | Group 2A |       |              |
| Azinphos-methyl<br>86-50-0   | -   | Group 2A | -     | -            |
| Omethoate<br>1113-02-6       |     | Group 2A |       |              |
| Isoxathion<br>18854-01-8     |     | Group 2A |       |              |
| Fenamiphos<br>22224-92-6     | -   | Group 2A | -     | -            |
| Vamidothion<br>2275-23-2     |     | Group 2A |       |              |
| Azinphos-ethyl<br>2642-71-9  |     | Group 2A |       |              |
| Ethylthiomethon<br>298-04-4  |     | Group 2A |       |              |
| Bromophos-ethyl<br>4824-78-6 |     | Group 2A |       |              |
| Coumaphos<br>56-72-4         |     | Group 2A |       |              |

**Reproductive toxicity**

| Chemical Name   | Reproductive toxicity source information      |
|-----------------|---|
| Acetone         | Based on the NITE GHS classification results. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidothion     | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | 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. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |

|                 |   |
|-----------------|---|
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidotion      | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | 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. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidotion      | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | Based on the NITE GHS classification results. |

**Aspiration hazard**

| Chemical Name   | Aspiration Hazard source information          |
|-----------------|---|
| Acetone         | Based on the NITE GHS classification results. |
| Monocrotophos   | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. |
| Vamidotion      | Based on the NITE GHS classification results. |
| Ethylthiomethon | Based on the NITE GHS classification results. |
| Coumaphos       | 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<br>>100 mg/L 96 h   | N/A  |
| Monocrotophos   | N/A                    | N/A   | LC50 : Gammarus fasciatus<br>160 ug/L 96 h                                   |
| Azinphos-methyl | N/A                    | N/A   | LC50 : Mysidopsis<br>0.00029 mg/L 96 h                                       |
| Omethoate       | EC50 : 167.5 mg/L 72 h | LC50 : 9.1 mg/L 96 h  | EC50 : 0.022 mg/L 48 h   |
| Isoxathion      | N/A                    | LC50 : Oncorhynchus mykiss<br>1.3 mg / L 96 h   | EC50 : Daphnia magna<br>0.00019 mg / L 48h                                   |
| Fenamiphos      | N/A                    | N/A   | EC50: Daphnia magna<br>0.0019 mg/L 48 h                                      |
| Ethylthiomethon | N/A                    | LC50:Lepomis macrochirus<br>0.094 - 0.136 mg/L 96 h<br>LC50:Oncorhynchus mykiss<br>0.2 - 5.5 mg/L 96 h<br>LC50:Pimephales promelas<br>1.64 - 2.13 mg/L 96 h<br>LC50:Poecilia reticulata<br>0.28 mg/L 96 h | EC50:Daphnia magna<br>0.033 mg/L 48 h<br>EC50:Daphnia magna<br>0.75 ppb 48 h |
| Coumaphos       | N/A                    | LC50: Bluegill<br>0.18 mg/L 96 h  | LC50: Gammarus fasciatus<br>0.074 ug/L                                       |

**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.                               |



|                 |   |   |
|-----------------|---|---|
| Monocrotophos   | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Azinphos-methyl | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Isoxathion      | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Fenamiphos      | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Vamidothion     | 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. |
| Coumaphos       | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Persistence and degradability</b> | No information available |
| <b>Bioaccumulative potential</b>     | No information available |
| <b>Mobility in soil</b>              | No information available |
| <b>Hazard to the ozone layer</b>     | 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

|                                |                |
|--------------------------------|----------------|
| <b>UN number</b>               | UN1090         |
| <b>Proper shipping name:</b>   | Acetone        |
| <b>UN classification</b>       | 3              |
| <b>Subsidiary hazard class</b> |                |
| <b>Packing group</b>           | II             |
| <b>Marine pollutant</b>        | Not applicable |

#### IMDG

|   |                          |
|---|--------------------------|
| <b>UN number</b>  | UN1090                   |
| <b>Proper shipping name:</b>  | Acetone                  |
| <b>UN classification</b>  | 3                        |
| <b>Subsidiary hazard class</b>  |                          |
| <b>Packing group</b>  | II                       |
| <b>Marine pollutant (Sea)</b>   | Not applicable           |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information available |

#### IATA

|  |                |
|--|----------------|
| <b>UN number</b>                           | UN1090         |
| <b>Proper shipping name:</b>               | Acetone        |
| <b>UN classification</b>                   | 3              |
| <b>Subsidiary hazard class</b>             |                |
| <b>Packing group</b>                       | II             |
| <b>Environmentally Hazardous Substance</b> | Not applicable |

## 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 3rd. Grade  |
| <b>Industrial Safety and Health Act</b>                                    | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)<br>Notifiable Substances (Law Art.57-2)<br>Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)<br>Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)<br>Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1) |
| <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)   |
| <b>Marine Pollution Prevention Law</b>                                     | Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z   |
| <b>Pollutant Release and Transfer Register Law (2023.4.1-)</b>             | Not applicable   |
| <b>Export Trade Control Order Narcotics and Psychotropics Control Law</b>  | Appendix 2 Export Approval Item  |

| 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<br>67-64-1 (<100)                    | -  | Applicable   | -   |
| Monocrotophos<br>6923-22-4 ( 0.0020 w/v % )  | Applicable                                       | -  | -   |
| Vamidothion<br>2275-23-2 ( 0.0020 w/v % )    | Applicable                                       | -  | -   |
| Ethylthiomethon<br>298-04-4 ( 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)  
<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. Product and company Identification.  
 Composition/information on ingredients. Fire fighting measures. Exposure controls/personal protection. Toxicological information. Ecological information.  
 Regulatory information.

### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material

designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

**End of Safety Data Sheet**