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**Safety Data Sheet****1. Chemical product and company identification****Product name** : PL2005 Pesticides GC/MS Mix I**SDS code** : Q4-04**Company/undertaking identification** :

HAYASHI PURE CHEMICAL IND.,LTD.

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URL : <https://www.hpc-j.co.jp/>**Emergency number** : 06-6910-7305**Recommended use** : For research and experimental use only.**Restrictions on use** : Do not use for any purpose other than research and experiment. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. Do not use in the environment.**2. Hazards identification****GHS classification**

|  |  |                             |                             |
|--|--|-----------------------------|-----------------------------|
| Physical hazards                                 | Explosives   | classification not possible |                             |
|  | Flammable gases  | No classification           |                             |
|  | Aerosol  | classification not possible |                             |
|  | Oxidizing gases  | No classification           |                             |
|  | Gases under pressure   | No classification           |                             |
|  | Flammable liquids  | Category 2                  |                             |
|  | Flammable solids   | No classification           |                             |
|  | Self-reactive substances and mixtures                                    | classification not possible |                             |
|  | Pyrophoric liquids   | classification not possible |                             |
|  | Pyrophoric solids  | No classification           |                             |
|  | Self-heating substances and mixtures                                     | classification not possible |                             |
|  | Substances and mixtures which in contact with water emit flammable gases | classification not possible |                             |
|  | Oxidizing liquids  | classification not possible |                             |
|  | Oxidizing solids   | No classification           |                             |
|  | Organic peroxides  | classification not possible |                             |
|  | Corrosive to metals  | classification not possible |                             |
|  | Desensitized explosives  | classification not possible |                             |
|  | Health hazards   | Acute toxicity (oral)       | classification not possible |
|  |  | Acute toxicity (dermal)     | classification not possible |
| Acute toxicity (inhalation:gas)                  |  | classification not possible |                             |
| Acute toxicity (inhalation:vapors)               |  | classification not possible |                             |
| Acute toxicity (inhalation:dust/mist)            |  | classification not possible |                             |
| Skin corrosion/irritation                        |  | classification not possible |                             |
| Serious eye damage/eye irritation                |  | Category 2B                 |                             |
| Respiratory sensitization                        |  | classification not possible |                             |
| Skin sensitization                               |  | classification not possible |                             |
| Germ cell mutagenicity                           |  | classification not possible |                             |
| Carcinogenicity                                  |  | classification not possible |                             |
| Reproductive toxicity                            | Category 2   |                             |                             |
| Specific target organ toxicity (single exposure) | Category 3 (Narcosis)  |                             |                             |

|                       |   |  |
|-----------------------|---|--|
|                       | Specific target organ toxicity (single exposure)          | Category 3 (Respiratory tract irritation.)                               |
|                       | Specific target organ toxicity (repeated exposure)        | Category 1 (central nervous system, respiratory system, digestive tract) |
|                       | Aspiration hazard   | classification not possible  |
| Environmental hazards | Hazardous to the aquatic environment, short-term (acute)  | Category 1   |
|                       | Hazardous to the aquatic environment, long-term (chronic) | Category 1   |
|                       | Hazardous to the ozone layer                              | classification not possible  |

## Hazard pictograms (GHS JP)



GHS02



GHS07



GHS08



GHS09

## Signal word (GHS JP)

: Danger

## Hazard statements (GHS JP)

: Highly flammable liquid and vapor (H225)  
 Causes eye irritation (H320)  
 May cause respiratory irritation (H335)  
 May cause drowsiness or dizziness (H336)  
 Suspected of damaging fertility or the unborn child (H361)  
 Causes damage to organs (central nervous system, respiratory system, digestive tract) through prolonged or repeated exposure (H372)  
 Very toxic to aquatic life with long lasting effects (H410)

## Precautionary statements (GHS JP)

## Prevention

: Obtain special instructions before use. (P201)  
 Do not handle until all safety precautions have been read and understood. (P202)  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)  
 Ground and bond container and receiving equipment. (P240)  
 Use explosion-proof electrical/ventilating/lighting equipment. (P241)  
 Use only non-sparking tools. (P242)  
 Take action to prevent static discharges. (P243)  
 Do not breathe dust/fume/gas/mist/vapors/spray. (P260)  
 Wash hands, forearms and face thoroughly after handling. (P264)  
 Do not eat, drink or smoke when using this product. (P270)  
 Use only outdoors or in a well-ventilated area. (P271)  
 Avoid release to the environment. (P273)  
 Wear protective gloves/protective clothing/eye protection/face protection. (P280)

## Response

: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
 IF exposed or concerned: Get medical advice/attention. (P308+P313)  
 Get medical advice/attention if you feel unwell. (P314)  
 If eye irritation persists: Get medical advice/attention. (P337+P313)  
 In case of fire: Use specify appropriate media to extinguish. (P370+P378)  
 Collect spillage. (P391)

## Storage

: Store in a well-ventilated place. Keep container tightly closed. (P403+P233)  
 Store in a well-ventilated place. Keep cool. (P403+P235)  
 Store locked up. (P405)

## Disposal

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. (P501)

### 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

| Name                 | Concentration or Concentration range | Formula  | Kanpo number |                             | CAS RN     |
|----------------------|--------------------------------------|--|--------------|-----------------------------|------------|
|                      |                                      |  | CSCL no      | ISHL no                     |            |
| Acetone              | ≥ 98%                                | (CH <sub>3</sub> ) <sub>2</sub> CO   | (2)-542      | Existing Chemical Substance | 67-64-1    |
| Anilofos             | About 0.0025%                        | C13H19ClNO <sub>3</sub> PS <sub>2</sub>                                      | -            | 4-(9)-296                   | 64249-01-0 |
| Azinphos methyl      | About 0.0025%                        | C10H12N <sub>3</sub> O <sub>3</sub> PS <sub>2</sub>                          | -            | -                           | 86-50-0    |
| Butamifos            | About 0.0025%                        | C13H <sub>21</sub> N <sub>2</sub> O <sub>4</sub> PS                          | -            | -                           | 36335-67-8 |
| Cadusafos            | About 0.0025%                        | C10H <sub>23</sub> O <sub>2</sub> PS <sub>2</sub>                            | -            | 2-(7)-313                   | 95465-99-9 |
| Chlorpyrifos         | About 0.0025%                        | C <sub>9</sub> H <sub>11</sub> Cl <sub>3</sub> NO <sub>3</sub> PS            | (5)-3724     | 8-(1)-1042                  | 2921-88-2  |
| Chlorpyrifos methyl  | About 0.0025%                        | C <sub>7</sub> H <sub>7</sub> Cl <sub>3</sub> NO <sub>3</sub> PS             | -            | 8-(1)-1043                  | 5598-13-0  |
| Cyanophos (CYAP)     | About 0.0025%                        | C <sub>9</sub> H <sub>10</sub> NO <sub>3</sub> PS                            | (3)-2625     | Existing Chemical Substance | 2636-26-2  |
| Diazinon             | About 0.0025%                        | C <sub>12</sub> H <sub>21</sub> N <sub>2</sub> O <sub>3</sub> PS             | (5)-923      | Existing Chemical Substance | 333-41-5   |
| Dichlofenthion (ECP) | About 0.0025%                        | C <sub>10</sub> H <sub>13</sub> Cl <sub>2</sub> O <sub>3</sub> PS            | (3)-4112     | 4-(9)-190                   | 97-17-6    |
| Dichlorvos (DDVP)    | About 0.0025%                        | C <sub>4</sub> H <sub>7</sub> Cl <sub>2</sub> O <sub>4</sub> P               | (2)-3224     | 2-(7)-181                   | 62-73-7    |
| Dimethoate           | About 0.0025%                        | C <sub>5</sub> H <sub>12</sub> NO <sub>3</sub> PS <sub>2</sub>               | (2)-1962     | Existing Chemical Substance | 60-51-5    |
| E-Dimethylvinphos    | About 0.0025%                        | C <sub>10</sub> H <sub>10</sub> Cl <sub>3</sub> O <sub>4</sub> P             | -            | 4-(9)-145                   | 71363-52-5 |
| Z-Dimethylvinphos    | About 0.0025%                        | C <sub>10</sub> H <sub>10</sub> Cl <sub>3</sub> O <sub>4</sub> P             | -            | 4-(9)-145                   | 67628-93-7 |
| Edifenphos (EDDP)    | About 0.0025%                        | C <sub>14</sub> H <sub>15</sub> O <sub>2</sub> PS <sub>2</sub>               | -            | 4-(9)-91                    | 17109-49-8 |
| EPN                  | About 0.0025%                        | C <sub>14</sub> H <sub>14</sub> NO <sub>4</sub> PS                           | (3)-2617     | 4-(2)-17,<br>4-(3)-17       | 2104-64-5  |
| Ethion               | About 0.0025%                        | C <sub>9</sub> H <sub>22</sub> O <sub>4</sub> P <sub>2</sub> S <sub>4</sub>  | -            | 2-(7)-259                   | 563-12-2   |
| Ethoprophos          | About 0.0025%                        | C <sub>8</sub> H <sub>19</sub> O <sub>2</sub> PS <sub>2</sub>                | -            | -                           | 13194-48-4 |
| Etrimfos             | About 0.0025%                        | C <sub>10</sub> H <sub>17</sub> N <sub>2</sub> O <sub>4</sub> PS             | -            | 8-(2)-1064                  | 38260-54-7 |
| Fenamiphos           | About 0.0025%                        | C <sub>13</sub> H <sub>22</sub> NO <sub>3</sub> PS                           | (3)-4292     | 4-(9)-288                   | 22224-92-6 |
| Fenitrothion         | About 0.0025%                        | C <sub>9</sub> H <sub>12</sub> NO <sub>5</sub> PS                            | (3)-2616     | 4-(9)-232                   | 122-14-5   |
| Fensulfothion        | About 0.0025%                        | C <sub>11</sub> H <sub>17</sub> O <sub>4</sub> PS <sub>2</sub>               | -            | -                           | 115-90-2   |
| Fenthion (MPP)       | About 0.0025%                        | C <sub>10</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub>               | -            | 4-(9)-130                   | 55-38-9    |
| Fonofos              | About 0.0025%                        | C <sub>10</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub>               | -            | -                           | 944-22-9   |
| Fosthiazate          | About 0.0025%                        | C <sub>9</sub> H <sub>18</sub> NO <sub>3</sub> PS <sub>2</sub>               | -            | 8-(7)-864                   | 98886-44-3 |
| Isazophos            | About 0.0025%                        | C <sub>9</sub> H <sub>17</sub> Cl <sub>3</sub> NO <sub>3</sub> PS            | -            | -                           | 42509-80-8 |
| Isofenphos           | About 0.0025%                        | C <sub>15</sub> H <sub>24</sub> NO <sub>4</sub> PS                           | (3)-3683     | 4-(9)-258                   | 25311-71-1 |
| Malathion            | About 0.0025%                        | C <sub>10</sub> H <sub>19</sub> O <sub>6</sub> PS <sub>2</sub>               | (2)-1963     | Existing Chemical Substance | 121-75-5   |
| Methacrifos          | About 0.0025%                        | C <sub>7</sub> H <sub>13</sub> O <sub>5</sub> PS                             | -            | -                           | 62610-77-9 |
| Methidathion (DMTP)  | About 0.0025%                        | C <sub>6</sub> H <sub>11</sub> N <sub>2</sub> O <sub>4</sub> PS <sub>3</sub> | -            | 8-(7)-172                   | 950-37-8   |
| Mevinphos            | About 0.0025%                        | C <sub>7</sub> H <sub>13</sub> O <sub>6</sub> P                              | -            | -                           | 7786-34-7  |
| Parathion            | About 0.0025%                        | C <sub>10</sub> H <sub>14</sub> NO <sub>5</sub> PS                           | -            | 4-(9)-244                   | 56-38-2    |
| Parathion methyl     | About 0.0025%                        | C <sub>8</sub> H <sub>10</sub> NO <sub>5</sub> PS                            | -            | 4-(4)-128,<br>4-(9)-124     | 298-00-0   |

|                           |               |                |          |                             |            |
|---------------------------|---------------|----------------|----------|-----------------------------|------------|
| Phenthoate (PAP)          | About 0.0025% | C12H17O4PS2    | (3)-2615 | Existing Chemical Substance | 2597-03-7  |
| Phorate                   | About 0.0025% | C7H17O2PS3     | -        | -                           | 298-02-2   |
| Phosalone                 | About 0.0025% | C12H15ClNO4PS2 | -        | 8-(7)-170,<br>8-(7)-490     | 2310-17-0  |
| Phosphamidon              | About 0.0025% | C10H19ClNO5P   | -        | 2-(7)-182,<br>2-(7)-183     | 13171-21-6 |
| Piperophos                | About 0.0025% | C14H28NO3PS2   | -        | -                           | 24151-93-7 |
| Pirimiphos methyl         | About 0.0025% | C11H20N3O3PS   | -        | -                           | 29232-93-7 |
| Profenofos                | About 0.0025% | C11H15BrClO3PS | -        | 4-(9)-254                   | 41198-08-7 |
| Propaphos                 | About 0.0025% | C13H21O4PS     | -        | -                           | 7292-16-2  |
| Prothiofos                | About 0.0025% | C11H15Cl2O2PS2 | -        | 4-(9)-94                    | 34643-46-4 |
| Pyraclofos                | About 0.0025% | C14H18ClN2O3PS | -        | -                           | 77458-01-6 |
| Pyridaphenthion           | About 0.0025% | C14H17N2O4PS   | (5)-5598 | -                           | 119-12-0   |
| Quinalphos                | About 0.0025% | C12H15N2O3PS   | -        | 8-(2)-1065                  | 13593-03-8 |
| Terbufos                  | About 0.0025% | C9H21O2PS3     | -        | -                           | 13071-79-9 |
| Tetrachlorvinphos         | About 0.0025% | C10H9Cl4O4P    | (3)-3366 | 4-(9)-146                   | 22248-79-9 |
| Tolclofos methyl          | About 0.0025% | C9H11Cl2O3PS   | -        | 4-(9)-127                   | 57018-04-9 |
| Triazophos                | About 0.0025% | C12H16N3O3PS   | -        | -                           | 24017-47-8 |
| α-Chlorfenvinphos         | About 0.0025% | C12H14Cl3O4P   | -        | -                           | 18708-86-6 |
| β-Chlorfenvinphos         | About 0.0025% | C12H14Cl3O4P   | -        | -                           | 18708-87-7 |
| Dioxabenzofos (Salithion) | About 0.0025% | C8H9O3PS       | (5)-3864 | 8-(9)-24                    | 3811-49-2  |

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

## 4. First aid measures

### First aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
Get immediate medical advice/attention.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing.  
Gently wash with plenty of soap and water.  
Get immediate medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting.  
Rinse mouth.  
Get immediate medical advice/attention.

## 5. Fire fighting measures

- Suitable extinguishing media : Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.
- Fire hazard : Extremely flammable liquid and vapor.
- Explosion hazard : Danger of the steam explosion in indoor, outdoor, sewer.  
May induce explosion of containers by heating.
- Hazardous decomposition products in case of fire : In case of fire, product may produce irritative or toxic fumes/gases.

- Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.  
In the case of peripheral fire, quickly remove movable containers to safe places.  
If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.  
Even after extinguishing fire, thoroughly cool containers by using plenty of water.
- Protection during firefighting : Wear appropriate fire-resistant clothing including self contained-compressed air breathing apparatus.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

- General measures : Before entering, ventilate the area.  
Do not let unauthorized persons come close to the area.  
Immediately place the leakage area in isolation, with taking proper distances for all directions.  
Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

### Environmental precautions

- Environmental precautions : Avoid release to the environment.  
Prevent entry to sewers and public waters.

### Methods and Equipment for Containment and Cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Collect leaking and spilled liquid in sealable containers as far as possible.  
Wash out the spilled area with large amounts of water.

## 7. Handling and storage

### Handling

- Technical measures : Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.  
Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.
- Precautions for safe handling : Do not eat, drink or smoke when using this product.  
Thoroughly wash your hands and gargle after handling.  
Ensure good ventilation of the work station.  
Do not contact, breathe or swallow.  
Take precautionary measures against static discharge.  
Use explosion-proof equipment.
- Prevents handling of incompatible substances or mixtures : Avoid prolonged or repeated exposure.

### Storage

- Storage conditions : Store locked up.  
Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.
- Material used in packaging/containers : Light shielding airtight container.
- Technical measures : Comply with applicable regulations.
- Storage temperature : Freeze: -20°C

## 8. Exposure controls / Personal protection equipment

| Exposure limit values      |                          |
|----------------------------|--------------------------|
| <b>Acetone</b>             |                          |
| Japan administration level | 500ppm                   |
| Exposure limits (JSOH)     | 200ppm(470mg/m3)         |
| Exposure limits (ACGIH)    | TWA 250 ppm,STEL 500 ppm |

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

### Protective equipment

Respiratory protection : Gas mask for organic gases  
 Hand protection : Impervious protective gloves  
 Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)  
 Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

## 9. Physical and chemical properties

Physical state : Liquid  
 Appearance : Liquid  
 Color : No data available  
 Odor : No data available  
 pH : No data available  
 Melting point : No data available  
 Freezing point : No data available  
 Boiling point : 57 °C (as acetone)  
 Flash point : -20 °C (as acetone, tag closed cup)  
 Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Flammability (solid, gas) : No data available  
 Vapor pressure : No data available  
 Relative density : No data available  
 Density : 0.8 g/cm<sup>3</sup> (as acetone, 20°C)  
 Relative gas density : No data available  
 Solubility : No data available  
 Partition coefficient n-octanol/water (Log Pow) : No data available  
 Explosive limits (vol %) : No data available  
 Viscosity, kinematic : No data available  
 Particle characteristics : No data available

## 10. Stability and reactivity

Reactivity : No data available  
 Chemical stability : Stable under normal handling conditions.  
 Possibility of hazardous reactions : Reacts with oxidants, reductants and bases. When contacting with strong oxidants like nitric acid and hydrogen peroxide, explosive peroxides can be generated. In the basic condition, reacting with chloroform and bromoform, the risk of fire and explosion can be caused. Corrodes the plastics.  
 Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity. Contact with oxidants, reductants, bases and chloroform and bromoform in the basic condition.  
 Incompatible materials : Oxidants, Reductants, Bases, Chloroform and bromoform in the basic condition  
 Hazardous decomposition products : No data available

## 11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

| As a product                  |   |
|-------------------------------|---|
| Acute toxicity (oral)         | classification not possible   |
| Acute toxicity (dermal)       | classification not possible   |
| Acute toxicity (inhalation)   | vapors:classification not possible<br>Gases:classification not possible<br>dust, mist:classification not possible |
| Skin corrosion/irritation     | classification not possible   |
| Serious eye damage/irritation | Category 2B   |

| <b>As a product</b>                   |  |
|---------------------------------------|--|
| Respiratory sensitization             | classification not possible                                      |
| Skin sensitization                    | classification not possible                                      |
| Germ cell mutagenicity                | classification not possible                                      |
| Carcinogenicity                       | classification not possible                                      |
| Reproductive toxicity                 | Category 2   |
| STOT-single exposure                  | Category 3 (Narcosis) Category 3 (Respiratory tract irritation.) |
| STOT-repeated exposure                | Category 1   |
| Aspiration hazard                     | classification not possible                                      |
| <b>Acetone</b>                        |  |
| Acute toxicity (oral)                 | No classification  |
| Acute toxicity (dermal)               | No classification  |
| Acute toxicity (gas)                  | No classification  |
| Acute toxicity (vapour)               | No classification  |
| Acute toxicity (inhalation:dust/mist) | classification not possible                                      |
| Skin corrosion/irritation             | No classification  |
| Serious eye damage/irritation         | Category 2B  |
| Respiratory sensitization             | classification not possible                                      |
| Skin sensitization                    | No classification  |
| Germ cell mutagenicity                | classification not possible                                      |
| Carcinogenicity                       | classification not possible                                      |
| Reproductive toxicity                 | Category 2   |
| STOT-single exposure                  | Category 3 (Narcosis) Category 3 (Respiratory tract irritation.) |
| STOT-repeated exposure                | Category 1   |
| Aspiration hazard                     | classification not possible                                      |

## 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

| <b>As a product</b>                                       |                             |
|---|-----------------------------|
| Hazardous to the aquatic environment, short-term (acute)  | Category 1                  |
| Hazardous to the aquatic environment, long-term (chronic) | Category 1                  |
| Persistence and degradability                             | No data available           |
| Bioaccumulative potential                                 | No data available           |
| Mobility in soil  | No data available           |
| Ozone   | classification not possible |
| <b>Acetone</b>  |                             |
| Hazardous to Aquatic Environment - Acute Hazard           | No classification           |
| Hazardous to Aquatic Environment - Chronic Hazard         | No classification           |
| Persistence and degradability                             | No data available           |
| Bioaccumulative potential                                 | No data available           |
| Mobility in soil  | No data available           |
| Hazardous to the ozone layer                              | No data available           |

## 13. Disposal considerations

- Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
- Contaminated container and packaging : Empty the packaging completely prior to disposal.  
Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

## 14. Transport information

### International Regulations

#### Transport by sea(IMDG)

|                                   |                            |
|-----------------------------------|----------------------------|
| UN-No. (IMDG)                     | : 1993                     |
| Proper Shipping Name (IMDG)       | : FLAMMABLE LIQUID, N.O.S. |
| Packing group (IMDG)              | : II                       |
| Transport hazard class(es) (IMDG) | : 3                        |
| Hazard labels (IMDG)              | : 3                        |
| Class (IMDG)                      | : 3                        |
| Special provision (IMDG)          | : 274                      |
| Limited quantities (IMDG)         | : 1 L                      |
| Excepted quantities (IMDG)        | : E2                       |
| Packing instructions (IMDG)       | : P001                     |
| IBC packing instructions (IMDG)   | : IBC02                    |
| Tank instructions (IMDG)          | : T7                       |
| Tank special provisions (IMDG)    | : TP1, TP28, TP8           |
| Stowage category (IMDG)           | : B                        |
| MFAG-No                           | : 127                      |

#### Air transport(IATA)

|  |                            |
|--|----------------------------|
| UN-No. (IATA)                                | : 1993                     |
| Proper Shipping Name (IATA)                  | : Flammable liquid, n.o.s. |
| Packing group (IATA)                         | : II                       |
| Transport hazard class(es) (IATA)            | : 3                        |
| Hazard labels (IATA)                         | : 3                        |
| Class (IATA)                                 | : 3                        |
| PCA Excepted quantities (IATA)               | : E2                       |
| PCA Limited quantities (IATA)                | : Y341                     |
| PCA limited quantity max net quantity (IATA) | : 1L                       |
| PCA packing instructions (IATA)              | : 353                      |
| PCA max net quantity (IATA)                  | : 5L                       |
| CAO packing instructions (IATA)              | : 364                      |
| CAO max net quantity (IATA)                  | : 60L                      |
| Special provision (IATA)                     | : A3                       |
| ERG code (IATA)                              | : 3H                       |

**Marine pollutant** : Applicable

#### Regulations in Japan

|                               |   |
|-------------------------------|---|
| Regulatory information by sea | : Conform to the provisions of the Ship Safety Law.       |
| Regulatory information by air | : Conform to the provisions of the Civil Aeronautics Law. |
| MFAG-No                       | : 127   |

**Special transport precautions** : When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

## 15. Regulatory information

### National law

|                                  |  |
|----------------------------------|--|
| Industrial Safety and Health Law | : Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning, Art.1, Para.1, Item 4)<br>Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1)<br>Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9)<br>Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)<br>Acetone (Ordinance number : 17)<br>Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)<br>Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1) |
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| Japanese Poisonous and Deleterious Substances Control Law       | : Specified Poisonous Substances (Law Art.2, Attached Table 3, Designating Order Art.3)<br>Preparations containing diethylparanitrophenylthiophosphate<br>Preparations containing dimethylparanitrophenyl thiophosphate<br>Preparations containing dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate<br>Poisonous Substances (Designated Order, Art.1)<br>Preparations containing diethylparanitrophenylthiophosphate<br>Preparations containing dimethylparanitrophenyl thiophosphate<br>Preparations containing dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate<br>Deleterious Substances (Designated Order Art.2)<br>Diethyl-1-(2',4'-dichlorophenyl)-2-chlorovinylphosphate and preparations containing it<br>Preparations containing 5% or less of O-ethyl-O-(2-isopropoxycarbonylphenyl)-N-isopropylthiophosphoramidate (Isofenphos)<br>Preparations containing 5% or less of O-ethyl S,S-dipropyl phosphorodithioate (Ethoprophos)<br>Preparations containing 10% or less of S,S-bis(1-methylpropyl) O-ethyl phosphorodithioate(Cadusafos). (except for sustained release preparations which contain 3% or less of S,S-bis(1-methylpropyl) O-ethyl phosphorodithioate)<br>2-Methoxy-1,3,2-benzodioxaphosphorine-2-sulfide and preparations containing it<br>Preparations containing tetraethylmethylenebisdithiophosphate<br>3-Dimethyldithiophosphoryl-S-methyl-5-methoxy-1,3,4-thiadiazorin-2-one and preparations containing it<br>Preparations containing O,O-dimethyl-N-methylcarbamyldimethyl-dithiophosphate(Dimethoate)<br>2-Chloro-1-(2,4-dichlorophenyl)vinyl dimethyl phosphate and preparations containing it<br>O,O'-Diethyl O''-(2-quinoxaliny) thiophosphate(Quinalphos) and preparations containing it<br>Preparations containing 1.5% or less of ethylparanitrophenyl-thionobenzene-phosphonate(EPN)<br>Preparations containing 3% or less of diethyl-4-methylsulfanylphenyl-thiophosphate<br>Preparations containing dimethyl-2,2-dichlorovinyl-phosphate(DDVP)<br>Dipropyl-4-methylthiophenylphosphate and preparations containing it |
| Water Pollution Prevention Law                                  | : Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)<br>Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)  |
| Narcotics and Psychotropics Control Act                         | : Raw Materials(Law Art.2 (7) , Attached Table Art.4)   |
| Fire Service Law  | : Group 4 - Flammable liquids - 1st Class petroleums - soluble (Law Art.2 Para.7, Attached Table 1, Group 4)  |
| Air Pollution Control Law                                       | : Hazardous Air Pollutants (Central Environment Council Report No. 9)<br>Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)   |
| Foreign Exchange and Foreign Trade Control Act                  | : Export Trade Control Ordinance appendix 1-16<br>Export Approval (Export Trade Control Order, Attached Table 2)  |
| Ship Safety Act   | : Flammable liquids (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)  |
| Civil Aeronautics Law   | : Flammable liquids (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)  |
| Port Regulation Law   | : Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)   |
| Road Act  | : Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Public Corp.)  |
| Waste Management on Public Cleansing Law                        | : Specially Controlled Industrial Wastes (Act Art.2, para 5, Enforcement Order Art.2-4 )  |
| Sewerage Law  | : Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)  |
| Japanese Pollutant Release and Transfer Register Law (PRTR Law) | : Not applicable  |

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- Labor Standards Act : Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Notification No.36 of 1978)
- Soil Contamination Countermeasures Law : Designated Hazardous Substances (Act Art.2 Para.3, Enforcement Order Art.1)

## 16. Other information

- Data sources : Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
- Other information : The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.