

1. Chemical product and company identification

Substance name : OLFINE PD-201

Recommended use of the chemical and restrictions on use

Recommended use : Additive

Restrictions on use : General industrial use

Company information

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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 | classification not possible |
| | 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:vapours) | classification not possible |
| | Acute toxicity (inhalation:dust/mist) | classification not possible |
| | Skin corrosion/irritation | classification not possible |
| | Serious eye damage/eye irritation | Category 2A |
| | Respiratory sensitization | classification not possible |
| | Skin sensitization | classification not possible |
| | Germ cell mutagenicity | classification not possible |
| | Carcinogenicity | classification not possible |
| | Reproductive toxicity | classification not possible |
| | Specific target organ toxicity (single exposure) | classification not possible |
| | Specific target organ toxicity (repeated exposure) | classification not possible |
| | Aspiration hazard | classification not possible |
| Environmental hazards | Hazardous to the aquatic environment, short-term (acute) | classification not possible |
| | Hazardous to the aquatic environment, long-term (chronic) | classification not possible |
| | Hazardous to the ozone layer | classification not possible |

Hazard
pictograms



GHS Signal word : Warning

Hazard statements : Causes serious eye irritation. (H319)

Precautionary statements

Prevention : Wash hands, forearms and face thoroughly after handling. (P264)
Wear protective gloves, protective clothing, eye protection, face
protection. (P280)

Response : 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 eye irritation persists: Get medical advice/attention.
(P337+P313)

Immediately call a doctor. (P310)

Get medical advice/attention if you feel unwell. (P314)

Storage : Store in a well-ventilated place. Keep cool. (P403+P235)

Disposal : Dispose of contents/container in accordance with
local/regional/national/international regulations. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Generic name : Surfactant composition

| Name | Concentration (%) | Reference number in the gazette list | | CAS-No. |
|--------------|-------------------|--------------------------------------|-------------|-------------|
| | | CSCL No | ISHL No | |
| Surfactant A | 50 - 60 | Undisclosed | Undisclosed | Undisclosed |
| Surfactant B | < 3 | Undisclosed | Undisclosed | Undisclosed |
| Water | 30 - 40 | - | - | 7732-18-5 |

4. First aid measures

First aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Move out of dangerous area. Take off contaminated clothing and shoes immediately. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove the sufferers to fresh air places immediately. If breathing has stopped or is labored, give artificial respiration, and get medical advices.

First-aid measures after skin contact : Take off contaminated clothes, shoes and socks. And wash sticking parts off with soap and plenty of water. If the external changes are observed or the symptoms such as irritation or itchy appears, get medical advices immediately.

First-aid measures after eye contact : Rinse immediately inner side of eyelid with plenty of water more than 20 minutes. Remove the contact lenses if possible. Get medical advices.

If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth thoroughly with water and get medical attention immediately.

Never give anything through mouth to a patient if he is

unconscious. Turn a patient's head to the side for preventing suffocation by vomit.

5. Fire fighting measures

Suitable extinguishing media : Dry chemical, Fire foam, Carbon dioxide (CO₂), Water mist.

Unsuitable extinguishing media : Nothing in particular

Fire hazard

Fire hazard : Under fire conditions, hazardous fumes or gas may be present.

Hazardous decomposition products in case of fire : The hazardous gasses such as carbon mono- and di-oxide and aldehyde group are generated at the Product's combustion.

Firefighting instructions

Firefighting instructions : Cut off ignition sources to a fire origin and fight a fire employing a suitable fire extinguishing agent.

Cool by water spray around the fire site to prevent the fire extension.

Personal protection (Emergency response)

Personal protection (Emergency response) : As gasses such as carbon dioxide, carbon monoxide, smoke are generated by high temperature at fire, wear a self-contained breathing apparatus, etc.

Protection during firefighting : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Other information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Clear off ignition sources and work from windward.
Wear suitable protective goggles, boots, gloves, body suits to avoid contact with droplet, etc and inhalation of mist, gas, etc.

For emergency responders

- Protective equipment : Wear suitable protective tools such as goggles, boots, gloves, body suits and a self-contained breathing apparatus according to circumstances to avoid inhalation of and direct contact with materials in question.
- Emergency procedures : Clear off all of ignition sources immediately.
Work from windward.
Stop release.

Environmental precautions

- Environmental precautions : Take care that the released Products do not inflow into the water-courses nor dirty water flows out to the environment.

Methods and Equipment for Containment and Cleaning up

- For containment : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).Keep in suitable, closed containers for disposal.
- Methods for cleaning up : When the releasing materials are small, cover with dry sand, dirt, sawdust and/or the like, rake up with shovels or brooms and recover into the containers being stoppled tightly.

When the releasing materials are large, vacuum and recover with a pump, etc.

Clean up the surroundings of the releasing area with water after recovery and recover the contaminated water as well.
- Prevention Measures for Secondary Accidents : Remove immediately all ignition source and prepare fire extinguish agents. Use safe tools which do not spark.

7. Handling and storage**Handling**

- Technical measures : Emergency showers and eye wash stations should be readily accessible.
- Precautions for safe handling : Comply with practice rules established by the Government.
- Prevents handling of incompatible substances or mixtures : Wear suitable personal protecting tools, if there are dangers of inhalation of vapor and mist or contact to skin or eye(s).
- Local and general ventilation : Handle the Product at the area installing local exhaust or whole ventilation facilities.

Storage

- Storage conditions : Store with a tight stopper at cool and dark places.
- Material used in packaging/containers : Keep oil tins dry because oil tins may form rust by wet with water and so on.
- Technical measures : Store the Product at a well ventilated place where is isolated from thermal sources and strong oxidizers.

Incompatible materials : Strong oxidizers (perchlorates, nitrates, peroxides). Reactive metals. (sodium,calcium, zinc, etc.). Dehydrating agent.

8. Exposure controls / Personal protection equipment

| OLFINE PD-201 | |
|--------------------------------------|-------------------|
| Japan - Occupational Exposure Limits | |
| Japan administration level | No data available |
| Exposure limits (JSOH) | No data available |
| Exposure limits (ACGIH) | No data available |

Appropriate engineering controls : Install sufficient general ventilators and local exhaust equipments, Express the place clearly where safety shower(s) and hand and eye washer(s) are equipped.

Protective equipment

Materials for protective clothing : Use personal protective equipment against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective equipment with the manufacturer.

Respiratory protection : Use an air respirator at an emergency, It is needless under normal conditions at well ventilated place.

Hand protection : Wear protective gloves.(Neoprene Nitrile rubber)

Eye protection : goggles style protective glasses

Skin and body protection : protective clothing, Choose appropriate protective clothes according to the concentration of the dangerous substance and the work circumstance.

Environmental exposure controls : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

9. Physical and chemical properties

Physical state : Liquid

Colour : yellow ~brown

Odour : characteristic odor

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

| | | |
|---|---|--------------------------------|
| Freezing point | : | No data available |
| Boiling point | : | 103 °C |
| Flash point | : | None (Cleveland open-cup test) |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20°C | : | No data available |
| Relative density | : | No data available |
| Density | : | No data available |
| 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 |
| Explosive limits (g/m ³) | : | No data available |
| Viscosity, kinematic | : | No data available |
| Minimum ignition energy | : | No data available |
| Particle size | : | No data available |

10. Stability and reactivity

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|------------------------------------|---|---|
| Reactivity | : | No data available |
| Chemical stability | : | Prevent high temperature atmosphere, by which the degradation of the product is accelerated. |
| Possibility of hazardous reactions | : | In case of mix and contact with strong oxidizer, it may cause hazards such as fire or explosion. |
| Conditions to avoid | : | Heat. Fire |
| Incompatible materials | : | Reactive metals. (sodium,calcium, zinc, etc.). Strong oxidizer (perchlorates, nitrates, peroxides etc.). Peroxides. Dehydrating agents. Materials reacted with hydroxyl compounds. |
| Hazardous decomposition products | : | The hazardous gasses such as carbon mono- and di-oxide and aldehyde group are generated at the Product's combustion. Heating above 65 C in the presence of strong base can produce flammable hydrocarbon residue. |

11. Toxicological information

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|-------------------------|---|----------------|-------------------|
| Acute toxicity (oral) | : | (as a product) | No data available |
| Acute toxicity (dermal) | : | (as a product) | No data available |

| | | |
|---|------------------|---|
| Acute toxicity (gas) - Description | : (as a product) | No data available |
| Acute toxicity (vapour) - Description | : (as a product) | No data available |
| Acute toxicity (dust, mist) - Description | : (as a product) | No data available |
| Acute toxicity (mist) - Description | : (as a product) | No data available |
| Skin corrosion/irritation | : (as a product) | No data available |
| Serious eye damage/irritation | : (as a product) | There are no available data about this product. There contain eye irritating materials belonging to the following Category. Category 1: Surfactant B (<3%) Concentration limits of Category 1 is $\geq 3\%$. Concentration limits of Category 2A is $<3\% \geq 1\%$. So this product is correspond to Serious eye damage/eye irritation Category 2A of GHS. |
| Respiratory sensitization | : (as a product) | No data available |
| Skin sensitization | : (as a product) | No data available |
| Germ cell mutagenicity | : (as a product) | No data available |
| Carcinogenicity | : (as a product) | No data available |
| Reproductive toxicity | : (as a product) | No data available |
| STOT-single exposure | : (as a product) | No data available |
| STOT-repeated exposure | : (as a product) | No data available |
| Aspiration hazard | : (as a product) | No data available |

12. Ecological information

Ecotoxicity

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|---|--|-------------------|
| Ecotoxicity | : (as a product) | No data available |
| Hazardous to the aquatic environment, short-term (acute) | : (as a product) | No data available |
| Hazardous to the aquatic environment, long-term (chronic) | : (as a product) | No data available |
| Other information | : It should not be allowed for the product to be run into drains, water courses or the soil. | |

Persistence and degradability

| | | |
|---------------------------------|------------------|-------------------|
| Persistence and degradability | : (as a product) | No data available |
| Biochemical oxygen demand (BOD) | : (as a product) | No data available |
| Chemical oxygen demand (COD) | : (as a product) | No data available |

Bioaccumulative potential

| | | |
|---|------------------|-------------------|
| Bioaccumulative potential | : (as a product) | No data available |
| Partition coefficient n-octanol/water (Log Pow) | : (as a product) | No data available |

Mobility in soil

| | | |
|---|------------------|-------------------|
| Mobility in soil | : (as a product) | No data available |
| Partition coefficient n-octanol/water (Log Pow) | : (as a product) | No data available |
| Ecology - soil | : (as a product) | No data available |

Hazardous to the ozone layer

| | | |
|-----------------------|---------------------------------------|-------------------|
| Ozone | : (as a product) | No data available |
| Other adverse effects | : No additional information available | |

13. Disposal considerations

Ecological waste information : Farm out to professional disposal treating traders in compliance with requirements of the nation and local governments.

Contaminated container and packaging : Farm out disposal of the contents and packaging materials to professional disposal treating traders in compliance with requirements of the nation and local governments.
In case of disposal of empty container, dispose after complete removal in the container.

14. Transport information**International Regulations****Transport by sea(IMDG)**

| | |
|-----------------------------------|------------------|
| UN-No. (IMDG) | : Not applicable |
| Proper Shipping Name (IMDG) | Not applicable |
| Packing group (IMDG) | : Not applicable |
| Transport hazard class(es) (IMDG) | : Not applicable |

Air transport(IATA)

| | |
|-----------------------------------|------------------|
| UN-No. (IATA) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Transport hazard class(es) (IATA) | : Not applicable |

Regulations in Japan

| | |
|-------------------|---|
| Other information | : At transportation, make sure of no leakage of packings, load the products without broken bags, falling, injury, etc, and prevent load collapses surely. |
|-------------------|---|

15. Regulatory information

| | |
|------------|---|
| REACH SVHC | : Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL. |
|------------|---|

16. Other information

| | |
|-------------------|--|
| Data sources | : Ref. 1."Safety Data Sheet" by Raw Material Manufacturers. 2.GHS Sixth Revised Edition. 3.NITE GHS Results of the Classification. |
| Other information | : The Products was developed for general industries' use. When applying to specific uses, it is hoped to confirm its safety by yourselves prior to the use. The description of this SDS is based upon materials, information and data which can be procured at present. However, we do not warrant any guarantee regarding the contents, physical and chemical properties, hazards and the like. |

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