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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: OPTODYNE UV-3000****Article number: UV3000****1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION:

OSAKA UMEDA TWIN TOWERS SOUTH, 1-13-1 Umeda, Kita-ku, Osaka-shi, Osaka, 530-0001, Japan

Phone: +81-6-6147-9702 Fax: +81-6-6147-9807

**Further information obtainable from:** <http://www.daikin.com/>**1.4 Emergency telephone number:**

Japan: +81-6-6349-7521

China: +86-532-8388-9090, +86-21-34151689

South Korea: +82-2-568-1722

Americas: CHEMTREC +1-800-424-9300 (Outside US/Canada: +1-703-527-3887)

Europe: +49-211-179 225-0

**\* SECTION 2: Hazard identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:** Not applicable**Signal word:** Not applicable**Additional information:**

EUH210 Safety data sheet available on request.

**\* SECTION 3: Composition/information on ingredients****Information on ingredients:**

Fluoroacrylic monomer 15-25%

Non-fluoro acrylic monomer 70-80%

Polymelization initiator &lt;5%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Seek immediate medical advice.**After inhalation:** Supply fresh air or oxygen; call for doctor.**After skin contact:**

Remove contaminated clothes immediately.

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult an ophthalmologist.**After swallowing:** Do not induce vomiting; Consult a doctor immediately.**4.2 Most important symptoms and effects, both acute and chronic:** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Fire-extinguishing powder

Foam

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**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Keep away from tobacco products.

**Respiratory protection:**

Use respiratory protective device with filters for organic and acid gas (or airline respirators in some cases) if formation of toxic gases is possible while the product is heated.

**Hand protection**



Protective gloves

**Material of gloves:** Rubber

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**



Safety glasses

**Body protection:** Protective work clothing

\* **SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

|   |                                   |
|---|-----------------------------------|
| <b>Physical state</b>   | Fluid                             |
| <b>Colour:</b>  | Transparent                       |
| <b>Odour:</b>   | Characteristic                    |
| <b>Melting point/freezing point:</b>                            | Undetermined.                     |
| <b>Boiling point or initial boiling point and boiling range</b> | Undetermined.                     |
| <b>Flammability</b>   | Product is not flammable.         |
| <b>Lower and upper explosion limit</b>                          |                                   |
| <b>Lower explosive limit:</b>                                   | No further information available. |
| <b>Upper explosive limit:</b>                                   | Not determined.                   |
| <b>Flash point:</b>   | 132 °C (COC)                      |
| <b>Decomposition temperature:</b>                               | No further information available. |
| <b>pH</b>   | Not determined.                   |
| <b>Viscosity:</b>   |                                   |
| <b>Kinematic viscosity</b>                                      | No further information available. |
| <b>Solubility</b>   |                                   |
| <b>water:</b>   | No further information available. |
| <b>Partition coefficient n-octanol/water (log value)</b>        | No further information available. |
| <b>Vapour pressure:</b>   | No further information available. |
| <b>Density and/or relative density</b>                          |                                   |
| <b>Relative density at 20 °C</b>                                | 1.07                              |
| <b>Vapour density</b>   | No further information available. |
| <b>Particle characteristics</b>                                 | No further information available. |

**9.2 Other information:**

|                                   |   |
|-----------------------------------|---|
| <b>Form:</b>                      | Liquid  |
| <b>Auto-ignition temperature:</b> | Product is not self-igniting.                 |
| <b>Explosive properties:</b>      | Product does not present an explosion hazard. |

**Information with regard to physical hazard classes**

|                        |                |
|------------------------|----------------|
| <b>Explosives</b>      | Not applicable |
| <b>Flammable gases</b> | Not applicable |
| <b>Aerosols</b>        | Not applicable |

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|  |                |
|--|----------------|
| <b>Oxidising gases</b>   | Not applicable |
| <b>Gases under pressure</b>  | Not applicable |
| <b>Flammable liquids</b>   | Not applicable |
| <b>Flammable solids</b>  | Not applicable |
| <b>Self-reactive substances and mixtures</b>                                     | Not applicable |
| <b>Pyrophoric liquids</b>  | Not applicable |
| <b>Pyrophoric solids</b>   | Not applicable |
| <b>Self-heating substances and mixtures</b>                                      | Not applicable |
| <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Not applicable |
| <b>Oxidising liquids</b>   | Not applicable |
| <b>Oxidising solids</b>  | Not applicable |
| <b>Organic peroxides</b>   | Not applicable |
| <b>Corrosive to metals</b>   | Not applicable |
| <b>Desensitised explosives</b>   | Not applicable |

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.

**10.3 Possibility of hazardous reactions:** May react drastically when exposed to acids, alkali, heat, light.

**10.4 Conditions to avoid:** Keep away from heat, sparks, flame, high temperature.

**10.5 Incompatible materials:**

Oxidizing agents

Acids, alkali

**10.6 Hazardous decomposition products:**

Danger of forming toxic pyrolysis products.

Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** no data

**LD/LC50 values relevant for classification:** No further information available.

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.  
**after inhalation:** No further information available.

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards:**

**Endocrine disrupting properties:**

None of the ingredients is listed.

### \* SECTION 12: Ecological information

**12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** No further relevant information available.

**vPvB:** No further information available.

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**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects:**

**Ecotoxicological effects:** no data

**Additional ecological information:**

**General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation:**

Must be specially treated adhering to official regulations.

Hand over to hazardous waste disposers.

**Uncleaned packaging**

**Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, ADN, IMDG, IATA

Not applicable

#### 14.2 UN proper shipping name:

ADR, ADN, IMDG, IATA

Not applicable

#### 14.3 Transport hazard class(es):

ADR, ADN, IMDG, IATA

**Class:**

Not applicable

#### 14.4 Packing group:

ADR, IMDG, IATA

Not applicable

#### 14.5 Environmental hazards:

**Marine pollutant:**

No

#### 14.6 Special precautions for user:

Not applicable.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

**Transport/Additional information:**

Avoid direct sunlight. Make sure of no damage, corrosion, leaks on the receptacles.

Take necessary measures for preventing cargo shift.

**UN "Model Regulation":**

Not applicable

### \* SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

**Labelling according to Regulation (EC) No 1272/2008** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for health-care application or food/feed application, consult us in advance.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** EHS Department

**Contact:** <http://www.daikin.com/>

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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*LATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

**\* Data compared to the previous version altered.**