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1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** OPTODYNE UV-1000
- **Article number:** 10001
- **Manufacturer/Supplier:**
DAIKIN INDUSTRIES, LTD. CHEMICAL DIVISION:
Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka, JAPAN
Phone: (+81) 6-6373-4349 Fax: (+81) 6-6373-4389
- **Further information obtainable from:** <http://www.daikin.com/>

2 Hazards identification

- **GHS label elements**

**Danger**

- 3.1/2 - Fatal if swallowed.
- 3.1/2 - Fatal in contact with skin.
- 3.1/2 - Fatal if inhaled.

**Warning**

- 3.6/2 - Suspected of causing cancer.

- **Response:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment is urgent (see on this label).
Remove/Take off immediately all contaminated clothing.

- **Storage:**

Store locked up.

- **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- **Chemical characterization:**

Blended epoxy monomers	75-85%
vinylcyclohexane diepoxide	10-20%
Danger: skull and crossbones 3.1.O/3, 3.1.D/3, 3.1.I/3	
Warning: health hazard 3.6/2	

P polymerization initiator

<5%

4 First-aid measures

- **General information:**

Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Seek immediate medical advice.

- **After inhalation:**

Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:**
 - Mouth respiratory protective device.
 - Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
 - vinylcyclohexane diepoxide**
 - REL (USA) 60 mg/m³, 10 ppm
Skin
 - TLV (USA) 0,57 mg/m³, 0,1 ppm
Skin
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - Keep away from tobacco products.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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- **Protection of hands:**



Protective gloves

- **Material of gloves:** Synthetic rubber gloves
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Liquid
Colour:	Transparent
Odour:	Characteristic
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flash point:	132°C (COC)
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	1,36 g/cm ³
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Organic solvents:	0,0 %
· Solids content:	80,7 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous decomposition products:**
 - Danger of forming toxic pyrolysis products.
 - Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:** no data

12 Ecological information

- **Ecotoxicological effects:** no data
- **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.

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN "Model Regulation":** -

15 Regulatory information

- **Code letter and hazard designation of product:**
T Toxic
- **Hazard-determining components of labelling:**
vinylcyclohexane diepoxide
- **Risk phrases:**
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
68 Possible risk of irreversible effects.
- **Safety phrases:**
4 Keep away from living quarters.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

16 Other information

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.

- **Abbreviations and acronyms:** GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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