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:
Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka, JAPAN
Phone: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281

Further information obtainable from: http://www.daikin.com/

1.4 Emergency telephone number:
+81-6-6349-7521, +86-512-5-232-0949, +86-21-34151689,
+82-2-568-1722, +1-256-306-5000, +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

SECTION 3: Composition/information on ingredients

Information on ingredients:

- Blended epoxy monomers 15-25%
- Epoxy monomer 70-80%
- Xn R22 <5%

Additional information: For the wording of the listed risk 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
- CO2

5.2 Special hazards arising from the substance or mixture:
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters: Remove receptacles from area of fire if possible.
Protective equipment:
Wear self-contained breathing apparatus and protective suit.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear appropriate protective devices (See Section 8 Exposure Controls/ Personal Protection). Avoid contact with eyes and skin.
Do not inhale the product.
Keep away from ignition sources.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:
For a small amount of leakage: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions 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 ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities:
Storage
Requirements to be met by storerooms and receptacles:
Store in a cool and dry location.
Use only receptacles specifically permitted for this substance/product.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacle.
Protect from heat and direct sunlight.
Protect from contamination.
Store locked up.
Store receptacle in a well ventilated area.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls
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.
Safety data sheet

Trade name: OPTODYNE UV-3000

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.

Protection of hands:

Protective gloves

Material of gloves: Rubber

Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye 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

Appearance
Form: Liquid
Colour: Transparent
Odour: Characteristic

pH-value: No further information available.
Melting point/Melting range: No further information available.
Boiling point/Boiling range: No further information available.
Flash point: 132 °C (COC)
Self-igniting: Product is not self-igniting.
Danger of explosion: Product does not present an explosion hazard.
Lower explosive limit: No further information available.
Upper explosive limit: No further information available.
Vapour pressure: No further information available.

Density:
Relative density at 20 °C 1,07

Solubility in / Miscibility with water: No further information available.

Partition coefficient (n-octanol/water): No further information available.

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
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.
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: no data

LD50/LC50 values relevant for classification: No further information available.

Primary irritant effect
after inhalation: No further information available.
Sensitisation: No sensitising effects known.
CMR effects
Germ cell mutagenicity: No further information available.
Carcinogenicity: No further information available.
Reproductive toxicity: No further information available.
Aspiration hazard: No further information available.
Specific target organ toxicity - single exposure: No further information available.
Specific target organ toxicity - repeated exposure: No further information available.

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.

Ecotoxicological effects: no data

Additional ecological information:
General notes:
Do not allow product to reach groundwater, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment
PBT: No further relevant information available.
vPvB: No further relevant information available.

12.6 Other adverse effects: No further relevant information available.

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:
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: 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.
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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
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":
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 Not applicable
Hazard pictograms Not applicable
Signal word Not applicable
Hazard statements Not applicable

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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent