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**\* SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** UNIDYNE XP-8001**Article number:** UNXP8001 DIL**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

**Sector of Use** SU8 Manufacture of bulk, large scale chemicals (including petroleum products)**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/>[sales@daikinchem.de](mailto:sales@daikinchem.de)**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**\* SECTION 3: Composition/information on ingredients****Information on ingredients:**

|                      |        |
|----------------------|--------|
| CAS: 7732-18-5 Water | 81-83% |
| Acrylate copolymer   | 17-19% |
| Others               | < 1%   |

**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 medical treatment.**After inhalation:**

Leave the contaminated area and seek fresh air. If breathing is difficult, contact a physician.

Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Remove contaminated clothes immediately.

Immediately wash with water and soap and rinse thoroughly.

Consult a doctor in case of complaints.

**After eye contact:**

Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.

Consult an ophthalmologist in case of complaints.

**After swallowing:**

Rinse mouth with water. Do not induce vomiting.

Consult a doctor in case of complaints.

**4.2 Most important symptoms and effects, both acute and chronic:** No further relevant information available.

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**Trade name: UNIDYNE XP-8001****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:***CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Use fire extinguishing methods suitable for surrounding conditions.***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:****Protective equipment:***Wear self-contained breathing apparatus and protective suit.**Do not inhale explosion gases or combustion gases.***\* SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:***Ensure clean-up is done only by trained personnel wearing appropriate personal protective equipment.**Collect spilled material in a container and seal**Spilled material is a slipping hazard.**Ensure adequate ventilation before entering the area.**Stay on the windward side.**Keep out unauthorized persons.**Wear appropriate protective devices (See Section 8 Exposure Controls/Personal Protection).**Avoid contact with eyes and skin.**Do not swallow the product.***6.2 Environmental precautions:***Do not allow to enter sewers/surface or ground water.**This product contains Methyl ethyl ketone (MEK) at less than 0.5%. Waste containing MEK at 200 ppm or greater are RCRA Hazardous.**Prevent seepage into sewage system, workpits and cellars.***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.**For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.***6.4 Reference to other sections:***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:***Follow safe industrial hygiene practices and wear proper protective equipment.**Use only in well ventilated areas.**Wash hands after handling.**Wash clothing after use**Avoid contact with eyes and skin.**Do not breathe vapour or spray.**Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.**Ensure good ventilation/exhaustion at the workplace.**Do not handle until all safety precautions have been read and understood.***Information about fire - and explosion protection:***The product is not flammable.**Keep ignition sources away - Do not smoke.***7.2 Conditions for safe storage, including any incompatibilities:****Storage****Requirements to be met by storerooms and receptacles:***Store material at -5C(23F) to 40C (104F)*

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Perishable if frozen. Keep from freezing.  
Keep away from heat, steam or sunlight.  
Store in tightly closed container.  
Store in a cool and dry location.  
Prevent any seepage into the ground.  
Keep containers tightly sealed.

**Information about storage in one common storage facility:**

See section 10 for information on incompatible materials.

**Further information about storage conditions:**

Protect from heat and direct sunlight.  
Store containers in a well ventilated area.  
Store locked up.

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

**\* SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters** No further information available.

**Ingredients with limit values that require monitoring at the workplace:****CAS: 78-93-3 Butanone**

IOELV (EU) Short-term value: 900 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.  
Do not eat or drink while working.  
Keep away from tobacco products.

**Respiratory protection:**

Appropriate respiratory protection is required when hand spray apparatus is used to apply material. If material is heated above 200 C, use a positive pressure air-supplied respirator or self-contained breathing apparatus (SCBA)  
Use local exhaust ventilation if material is heated above 200C or if molding or curing.  
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.  
Use respiratory protective device with organic gas cartridge.

**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:**

Eyewash station and safety shower  
Protective work clothing

**\* SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

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|   |   |
|---|---|
| <b>Colour:</b>  | Pale Brown                                    |
| <b>Odour:</b>   | Characteristic                                |
| <b>Odour threshold:</b>   | Not determined.                               |
| <b>Melting point/freezing point:</b>                            | No data                                       |
| <b>Boiling point or initial boiling point and boiling range</b> | 100 °C  |
| <b>Flammability</b>   | Not applicable.                               |
| <b>Lower and upper explosion limit</b>                          | Not applicable.                               |
| <b>Lower explosive limit:</b>                                   | No further information available.             |
| <b>Upper explosive limit:</b>                                   | Not determined.                               |
| <b>Flash point:</b>   | Not applicable.                               |
| <b>Auto-ignition temperature:</b>                               | No further information available.             |
| <b>Decomposition temperature:</b>                               | Not determined.                               |
| <b>pH at 20 °C</b>  | 4.2 – 4.9                                     |
| <b>Viscosity:</b>   | No further information available.             |
| <b>Kinematic viscosity</b>                                      | Not determined.                               |
| <b>Dynamic:</b>   | Not determined.                               |
| <b>Solubility</b>   |   |
| <b>water:</b>   | Miscible in water                             |
| <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>                                | 1.02  |
| <b>Vapour density</b>   | Not determined.                               |
| <b>Particle characteristics</b>                                 | Not applicable.                               |
| <b>9.2 Other information:</b>                                   |   |
| <b>Form:</b>  | Emulsion                                      |
| <b>Ignition temperature:</b>                                    | Product is not self-igniting.                 |
| <b>Explosive properties:</b>                                    | Product does not present an explosion hazard. |
| <b>Evaporation rate</b>   | Not determined.                               |
| <b>Information with regard to physical hazard classes</b>       |   |
| <b>Explosives</b>   | Not applicable                                |
| <b>Flammable gases</b>  | Not applicable                                |
| <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</b>      |   |
| <b>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** Stable**Thermal decomposition / conditions to be avoided:**

Excessive heat, sparks, and open flame

To avoid thermal decomposition do not overheat.

**10.3 Possibility of hazardous reactions:**

HAZARDOUS POLYMERIZATION: Should not occur

No dangerous reactions known under normal conditions of use.

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

**10.5 Incompatible materials:**

May react with metals such as sodium, magnesium, aluminum, at elevated temperatures above 425 °C; may react upon prolonged exposure to fluorine or in oxygen-fluorine mixtures at high temperature and pressures. Contact with incompatible materials may result in fire or explosion.

**10.6 Hazardous decomposition products:**

Carbon dioxide  
Carbon monoxide

\* **SECTION 11: Toxicological information**

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

**Acute toxicity**

No further information available.

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

**LD/LC50 values relevant for classification:**

Oral LD50 > 2000 mg/kg (Rat)

**Primary irritant effect**

**Skin corrosion/irritation:**

No further information available.

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

**Serious eye damage/irritation:**

No further information available.

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:**

No further information available.

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

**Carcinogenicity:**

No further information available.

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

**Reproductive toxicity:**

No further information available.

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

**STOT-single exposure:**

No further information available.

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

**STOT-repeated exposure:**

No further information available.

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

**Aspiration hazard:**

No further information available.

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

**Other information (about experimental toxicology):** No further information available.

**Subacute to chronic toxicity:** No further information available.

\* **SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

Not hazardous to the aquatic environment.

LC50/96h > 100 mg/l (Fish) (OECD 203)

EC50/48h > 100 mg/l (Daphnia) (OECD 202)

**12.2 Persistence and degradability:**

BOD 18407 mgO/L /SM 5210B (Activated sludge)

COD 384314 mgO/L /SM 5220C (Activated sludge)

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

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**Trade name: UNIDYNE XP-8001****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 relevant information available.**12.7 Other adverse effects:****Ecotoxicological effects:** no data**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation:** Disposal must be made according to official regulations.**Uncleaned packaging****Recommendation:** Disposal must be made according to official regulations.**\* SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA** Not applicable**14.2 UN proper shipping name:****ADR:** Not applicable**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:** Not applicable.**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.

**Dutch List of Substances of Very High Concern (ZZS)**

None of the ingredients is listed.

**Labelling according to Regulation (EC) No 1272/2008** Not applicable**Hazard pictograms** Not applicable**Signal word** Not applicable**Hazard statements** Not applicable**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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**Trade name: UNIDYNE XP-8001****Regulation (EC) No 273/2004 on drug precursors**

CAS: 78-93-3 Butanone: 3

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

CAS: 78-93-3 Butanone: 3

**National regulations** No further information available.**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:**<https://www.daikin.com/>[sales@daikinchem.de](mailto:sales@daikinchem.de)[www.daikinchem.de](http://www.daikinchem.de)**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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