

Printing date 19.06.2003

Reviewed on 18.11.2002

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

- **Product details**
- **Trade name:** UNIDYNE TG-573
- **Application of the substance / the preparation**  
Coating  
Textile auxiliary
- **Manufacturer/Supplier:**  
Daikin Industries Ltd  
Chemical Division  
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi, KitaKu  
Osaka, 530-8323, Japan  
Daikin Chemical Europe GmbH  
Immermannstrasse 65D, D - 40210 Dusseldorf
- **Further information obtainable from:** Switchboard: +0049 211 179 22 50

## 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:**  
Resin mixture  
Fluoroalkyl acrylate copolymer+Emulsifiers 30%  
[(Methylethylene) bis(oxy) ] dipropanol(EINECS = 2464660) 8%  
Water (EINECS = 2317912) 62%
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
Do not spray on a naked flame or any incandescent material.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 4 First-aid measures

- **General information:** In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Generally the product does not irritate the skin.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Hydrogen fluoride (HF)  
Hydrogen chloride (HCl)  
Formation of toxic gases is possible during heating or in case of fire.

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- **Protective equipment:** 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).  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Keep receptacles tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

### 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:**
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from tobacco products.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **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.
- **Protection of hands:**



Protective gloves

- **Material of gloves:** Synthetic rubber gloves
- **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 protection:** Safety glasses
- **Body protection:** Protective work clothing

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### 9 Physical and chemical properties

#### · General Information

**Form:** Suspension  
**Colour:** Light yellow  
**Odour:** Characteristic

#### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 100°C

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 23.0 hPa

· **Density at 25°C:** 1 hPa

· **Solubility in / Miscibility with water:** Fully miscible.

· **pH-value at 25°C:** 2.0-4.0

#### · Solvent content:

**Organic solvents:** 0.3 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Fluorophosgene on contact with naked flame or red hot objects.

### 11 Toxicological information

#### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg (rat)
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#### · Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Other information (about experimental toxicology):** Bacterial Reverse Mutation Assay : Negative

#### · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

### 12 Ecological information

#### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

#### · Product:

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Risk phrases:** -
- **Safety phrases:**  
15 Keep away from heat.  
21 When using do not smoke.  
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- **Special labelling of certain preparations:**  
Do not spray on a naked flame or any incandescent material.
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
Water	58.3
III	0.3
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 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.

- **Department issuing MSDS:** Toxicology and Product Regulatory.
- **Contact:** [www.daikin.co.jp/chm/](http://www.daikin.co.jp/chm/)