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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** UNIDYNE TG-9011**Article number:** UNTG9011**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:

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Japan: +81-6-6349-7521

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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:**

Fluoroalkyl acrylate copolymer	15-25%
CAS: 25322-68-3 Polyethylene glycol	1-10%
CAS: 67-63-0 Isopropyl alcohol	<1%
Flam. Liq. 2, H225	
Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 7732-18-5 Water	70-80%
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:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothes immediately.

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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(H); MW>200

Additional information: *The lists valid during the making were used as basis.*

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8.2 Exposure controls

Appropriate engineering controls No further data; see item 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:

Use respiratory protective device with organic gas cartridge.

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.

Eyeface 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

Colour: Light yellow

Odour: Characteristic

Melting point/freezing point: No further information available.

Boiling point or initial boiling point and boiling range 100 °C (Water)

Lower and upper explosion limit

Lower explosive limit: No further information available.

Upper explosive limit: No further information available.

Flash point: Not applicable.

pH 3.5-6.5

Solubility

water: Fully miscible.

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

Vapour pressure: No further information available.

Density and/or relative density

Density at 25 °C: 1.1 g/cm³

9.2 Other information:

Appearance

Form: Liquid

Explosive properties: Product does not present an explosion hazard.

Information with regard to physical hazard classes

Explosives Not applicable

Flammable gases Not applicable

Aerosols Not applicable

Oxidising gases Not applicable

Gases under pressure Not applicable

Flammable liquids Not applicable

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

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: No dangerous reactions known under normal conditions of use.

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

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Danger of toxic fluorine based pyrolysis products.

*** SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

LD/LC50 values relevant for classification:

Oral LD50 >2000 mg/kg (Rat)

Skin corrosion/irritation

No irritant effect.

Rabbit: No skin irritation

Serious eye damage/irritation No further information available.

after inhalation: No further information available.

Respiratory or skin sensitisation No sensitizing effect.

Germ cell mutagenicity Ames Assay - Negative

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.

Other information (about experimental toxicology):

No further information available.

Acute Dermal Irritation/Corrosion (non GLP) : not irritating

Acute Eye Irritation/Corrosion (non GLP) : slightly irritating

Skin Sensitisation: Local Lymph Node Assay (OECD TG 429) : not to be a skin sensitizer

Bacterial Reverse Mutation Test : negative

Subacute to chronic toxicity No further information available.

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

*** SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

LC50/96 h 12000 mg/l (Fish)

12.2 Persistence and degradability: No further relevant information available.

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Other information:

OECD302B Inherent Biodegradability 100%(28days, DOC analysis)

OECD 209 Activated Sludge, Respiration Inhibition EC50 > 300mg/L

12.3 Bioaccumulative potential: No further relevant information available.

Other information Free Formaldehyde = less than 2 mg/kg

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.

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

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, 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****Labelling according to Regulation (EC) No 1272/2008** Not applicable**Hazard pictograms** Not applicable**Signal word** Not applicable**Hazard statements** Not applicable**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:** <http://www.daikin.com/>**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)

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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

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