Safety data sheet

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* SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: GXDYNE XF-4001
Article number: XF4001 STD
1.2 Relevant identified uses of the substance or mixture and uses advised against:
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
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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:

	Acrylate copolymer	25-35%
CAS: 64-19-7	Acetic acid Flam. Liq. 3, H226 Skin Corr. 1A, H314 Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	< 1%
CAS: 24800-44-0	Tripropylene glycol	5-15%
CAS: 7732-18-5	Water	55-65%
	Others	<5%

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:
Remove contaminated clothes immediately.
Immediately wash with water and soap and rinse thoroughly.
Consult a doctor in case of complaints.

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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.*
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: *Use fire extinguishing methods suitable for surrounding conditions.*
For safety reasons unsuitable extinguishing agents: *No further information available.*
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 adequate ventilation before entering the area.
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: *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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:
Prevent formation of aerosols.
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: *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 in a cool and dry location.
Provide solvent resistant, sealed floor.
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:
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
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:
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 trough 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: Protective work clothing

* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Light yellow
Odour:	Aromatic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower explosive limit:	No further information available.
Upper explosive limit:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Product is not self-igniting.
Decomposition temperature:	Not determined.
pH	5
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	No further information available.
Partition coefficient n-octanol/water (log value)	No further information available.

Vapour pressure:	No further information available.
Vapour pressure:	No further information available.
Density and/or relative density	
Density:	1.07 g/cm³
Vapour density	Not determined.
Particle characteristics	Not applicable.

9.2 Other information:

Form:	Liquid
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Not applicable
Flammable gases	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures, which emit flammable gases in contact with water	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Not applicable
Desensitised explosives	Not applicable

* 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: Carbon monoxide

* 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)
Primary irritant effect
Skin corrosion/irritation:
No further information available.
Based on available data, the classification criteria are not met.
Irritation of skin Primary skin irritation study (Rabbit)
No irritant (OECD404)
Serious eye damage/irritation:
No further information available.
Based on available data, the classification criteria are not met.
Irritation of eyes Primary eye irritation study (Rabbit)
Mild irritant (OECD405)
after inhalation: No further information available.

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Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Sensitisation Skin Sensitization SI (Mouse)
No sensitiser (OECD429)

Germ cell mutagenicity: *Based on available data, the classification criteria are not met.*
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.*
Subacute to chronic toxicity: *No further information available.*

* SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:

EC50 mg/l (Alga)
10.5 mg/L 48hr
10.0 mg/L 72hr non-GLP

> 5000 mg/l (Bacteria)
non-GLP

12.2 Persistence and degradability:

Biodegradation 100 % (Activated sludge)
28days non-GLP

12.3 Bioaccumulative potential: *No further relevant information available.*
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:
BOD 4000mgO/L
CODMn=150000mgO/L
Ecotoxical 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	*Not applicable*
14.2 UN proper shipping name:	*Not applicable*
14.3 Transport hazard class(es):	*Not applicable*
14.4 Packing group:	*Not applicable*
14.5 Environmental hazards:	
Marine pollutant:	*Yes* *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.*
ADR	
Excepted quantities (EQ)	*NOT SUBJECT TO ADR*

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Tunnel restriction code:	-
IMDG	
Excepted quantities (EQ)	Code: None Maximum net quantity per inner packaging: None Maximum net quantity per outer packaging: None
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.
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.
Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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:
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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
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.**