

Preparation Date 2021/03/02

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier UNIFAST TRAD – Liquid
 Product Code 210128-2
 Name of Supplier GC Corporation
 Address 76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan, Postal code 174-8585
 Company Contact Quality Assurance department
 Phone Number 81-3-3965-1388
 Fax Number 81-3-3965-1276
 Restriction on Use Prohibit use by anyone other than qualified dentistry.

Prohibit use for purposes other than those written in this product IFU.

Prohibition of use of glass ionomer cement, methacrylate-based polymers, and methacrylate-based monomers in patients with a history of hypersensitivity symptoms such as rash and dermatitis.

Prohibition of use of silicone in patients with a history of hypersensitivity symptoms such as rash and dermatitis.

Surgeons / patients who have a rash, dermatitis, or other hypersensitivity to this product should discontinue use and seek medical attention immediately.

Section 2 – HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physicochemical
 Health Hazards Flammable liquids Category 2
 Acute toxicity (Inhalation: vapour) Category 4
 Acute toxicity (Inhalation: dust and mist) Category 4
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2A
 Respiratory sensitization Category 1
 Skin sensitization Category 1
 Carcinogenicity Category 2
 Specific target organ toxicity (single exposure) Category 1 (respiratory apparatus)
 Specific target organ toxicity (single exposure) Category 2 (blood)
 Specific target organ toxicity (single exposure) Category 3 (narcotic effect)
 Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus nervous system)
 Specific target organ toxicity (repeated exposure) Category 2 (liver kidney)
 Environmental Hazards Hazardous to the aquatic environment, short-term (acute) Category 3
 Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements

Pictograms



Signal Word

Danger

Hazard Statements

H225 Highly flammable liquid and vapour
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H336 May cause drowsiness or dizziness
 H351 Suspected of causing cancer
 H370 Causes damage to respiratory apparatus
 H371 May cause damage to blood
 H372 Causes damage to respiratory apparatus, nervous system through prolonged or repeated exposure

	H373 May cause damage to liver, kidney through prolonged or repeated exposure H402 Harmful to aquatic life
Precautionary Statements	
Prevention	Obtain special instructions before use.(P201) Do not handle until all safety precautions have been read and understood.(P202) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210) Keep container tightly closed.(P233) Ground and bond container and receiving equipment.(P240) Use explosion-proof electrical, ventilating and lighting equipment.(P241) Use non-sparking tools.(P242) Take action to prevent static discharges.(P243) Do not breathe dust/fume/gas/mist/vapours/spray.(P260) Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Use only outdoors or in a well-ventilated area.(P271) Contaminated work clothing should not be allowed out of the workplace.(P272) Avoid release to the environment.(P273) Wear protective gloves/protective clothing/eye protection/face protection.(P280) Wear respiratory protection.(P284)
Response	IF ON SKIN: Wash with plenty of soap and water.(P302+P352) IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353) IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) IF exposed or concerned: Call a doctor.(P308+P311) IF exposed or concerned: Get medical advice/attention.(P308+P313) Call a doctor if you feel unwell.(P312) Get medical advice and attention if you feel unwell.(P314) Specific treatment.(P321) If skin irritation occurs: Get medical advice/attention.(P332+P313) If skin irritation or rash occurs: Get medical advice/attention.(P333+P313) If eye irritation persists: Get medical advice/attention.(P337+P313) If experiencing respiratory symptoms: Call a doctor.(P342+P311) Take off contaminated clothing and wash it before reuse.(P362+P364) In case of fire: Use appropriate media to extinguish.(P370+P378)
Storage	Store in a well-ventilated place. Keep container tightly closed.(P403+P233) Store in a well-ventilated place. Keep cool.(P403+P235)
Disposal	Store locked up.(P405) Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

Mixture

Chemical Name or	Concentration or Its	Formula	ENCS No./ISHL No.	CAS RN
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Generic Name	Ranges		ENCS No.	ISHL No.	
Methyl methacrylate	≥90%	Confidential	Confidential	Existing	Confidential
Tertiary Amine	Confidential	Confidential	Confidential	Confidential	Confidential

Section 4 – FIRST AID MEASURES

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms call a doctor.

Skin Contact

IF exposed or concerned: Call a doctor.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs, get medical advice and attention.

Specific treatment.

Eye Contact

IF exposed or concerned: Call a doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion

IF exposed or concerned: Call a doctor.
Rinse mouth.
IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

When dust occurs, use dry sand.

Unsuitable Extinguishing Media

Cylindric water.

Specific Hazards in Case of Fire

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Specific Fire Fighting

Fight fire from upwind position if possible
Keep away from sources of ignition and use appropriate extinguishing media.
Prohibit unauthorized staff from entering the area around the fire.

Special Protective Equipment and Precautions for Fire

Keep unnecessary people away.
Wear respiratory protection.

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear respiratory protection.

Environmental Precautions

Large spills :Evacuate area.

Ensure adequate ventilation.

Methods and Equipment for Containment and Cleaning Up

Do not discharge into the drains, surface waters or ground water directly.

small spill : absorb with material such as non-combustible material wash thoroughly after handling

Large spills: Dike spills and dispose of in safe area.

Prevention Measures for Secondary Accidents

Keep away from sources of ignition and prepare extinguishing media.
Risk of slipping. Spilled material forms slippery floor.

Do not recklessly walk on the spillage.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Please comply with this section and the contents of this product IFU.

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Ground/bond container and receiving equipment.
 Use only non-sparking tools.
 Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Use local exhaust ventilation in case of production of fume or mist.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Precautions for Safe Handling Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.
 Use only outdoors or in a well-ventilated area.

Wear respiratory protection.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Contaminated work clothing should not be allowed out of the workplace.
 Keep cool.
 Do not breathe dust/fume/gas/mist/vapours/spray.

Prevents Handling of Incompatible Substances or

Storage Conditions for Safe Storage Refer to "Section 10 – STABILITY AND REACTIVITY".

Store locked up.
 Store container tightly closed in well-ventilated place.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Exposure Limits (ACGIH)
Methyl methacrylate	TWA 50 ppm, STEL 100 ppm

Engineering Controls Use local exhaust ventilation in case of production of fume or mist.
 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Use explosion-proof electrical equipment and prevent from static electrocity.

Personal Protective Equipment
 Respiratory Protection Wear respiratory protection.
 Hand Protection Wear protective gloves.
 Eye/Face Protection Wear eye protection/face protection.
 Skin and Body Protection Wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Form	liquid
Colour	colorless and transparent
Odour	solvent odor
Melting Point/Freezing Point	Not applicable
Boiling Point or Initial Boiling Point and Boiling Ranges	Not applicable
Flammability Lower and Upper Explosion Limit / Flammability Limit	No data available
	Lower Limit Not applicable
	Upper Limit Not applicable
Flash Point	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
pH	No data available
Kinematic Viscosity	No data available
Solubility	Not applicable
Partition Coefficient : n-Octanol/Water	No data available

Vapour Pressure	No data available
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity	No information available
Chemical Stability	No information available
Possibility of Hazardous Reaction	No information available
Conditions to Avoid	No information available
Incompatible Substances or Mixtures	No information available
Hazardous Decomposition Products	No information available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	Not classified.
		Classification not possible.
	Dermal	Not classified.
		Classification not possible.
	Inhalation	(gas) Does not fall under gas based on GHS definitions.
		(vapour) Category 4.
		(dust and mist) Category 4. Category 2.
Skin Corrosion/Irritation		
Serious Eye Damage/Eye Irritation		Category 2A.
Respiratory Sensitization		Category 1.
Skin Sensitization		Category 1.
Germ Cell Mutagenicity		Not classified.
		Classification not possible.
Carcinogenicity		Category 2.
Reproductive Toxicity		(Reproductive toxicity) Not classified since.
		Classification not possible.
		(Reproductive toxicity, effects on or via lactation)
Specific Target Organ Toxicity (Single Exposure)		Unable to classify. Category 1(respiratory apparatus).
		Category 2(blood).
		Category 3(narcotic effect).
Specific Target Organ Toxicity (Repeated Exposure)		Category 1(respiratory apparatus).

Category 1(nervous system).

Category 2(liver).

Category 2(respiratory apparatus).

Category 2(kidney).

Category 2(blood).

Aspiration Hazard

Classification not possible.

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)

Category 3.

Hazardous to the Aquatic Environment, Long-Term (Chronic)

Not classified .

Not classified.

Ecotoxicity

No data available

Persistence

No data available

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

Hazardous to the Ozone Layer

Unable to classify.

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste

Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes.

Dispose of waste in accordance with local, state and federal regulations.

Contaminated Container and Packaging

Passed to a licensed waste contractor.

In case of disposal of empty containers, remove the content thoroughly.

This material is containing flammable materials. Be careful in case of incineration.

Section 14 – TRANSPORT INFORMATION

International Regulations

Regulatory Information by Sea

Conform to the provisions of IMO.

UN No.

1247

Proper Shipping Class

METHYL METHACRYLATE, MONOMER, STABILIZED
3

Packing Group

II

Marine Pollutant

Not applicable

Liquid Substance

Applicable

Transported in Bulk

According to

MARPOL 73/78,

Annex II, the IBC

Code

Regulatory Information by Air

Conform to the provisions of ICAO/IATA.

UN No.

1247

Proper Shipping Class

METHYL METHACRYLATE, MONOMER, STABILIZED
3

Packing Group

II

Regulations in Japan

Regulatory Information by Road

Complies with the Fire Service Act.

Regulatory Information by Sea

Conform to the provisions of the Ship Safety Law.

UN No.

1247

Proper Shipping Class

METHYL METHACRYLATE, MONOMER, STABILIZED
3

Packing Group

II

Marine Pollutant

Not applicable

Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II , the IBC Code	Applicable
Regulatory Information by Air	Conform to the provisions of the Civil Aeronautics Law.
UN No.	1247
Proper Shipping Class	METHYL METHACRYLATE, MONOMER, STABILIZED 3
Packing Group	II
Emergency Response Guide Number	129P

Section 15 – REGULATORY INFORMATION

It is recommended to consult the local regulations of the state/region to determine the identification as hazardous material.

Section 16 – OTHER INFORMATION

Information Contact No information available

