Preparation Date 2021/03/02

Safety Data Sheet (SDS)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier UNIFASTⅢ - Liquid

Product Code 210119-1 Name of Supplier GC Corporation

76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan, Postal Address

code 174-8585

Company Contact Quality Assurance department

81-3-3965-1388 Phone Number 81-3-3965-1276 Fax Number

Prohibit use by anyone other than qualified dentistry. Restriction on Use

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 Hazard Statements

Danger

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)

IF ON SKIN: Wash with plenty of soap and

Response

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)

Store locked up.(P405)

Disposal 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

Chemical Name or	Concentration or Its	Formula	ENCS No./ISHL No.		CAS RN
Generic Name	Ranges		ENCS No.	ISHL No.	
Methyl methacrylate	≥90%	Confidential	Confidential	Existing	Confidential
Cross linking agent	Confidential	Confidential	Confidential	Confidential	Confidential
Quatemary ammonium compound	Confidential	Confidential	Confidential	Confidential	Confidential
Polymerization inhibitor	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.

IF exposed or concerned: Call a doctor.

IF ON SKIN (or hair): Remove/Take off immediately all Skin Contact 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.

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.

IF exposed or concerned: Call a doctor.

Ingestion 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

Eye Contact

Use extinguishing agent suitable for type of surrounding

When dust occurs, use dry sand.

Cylindric water.

Unsuitable Extinguishing

Media

Specific Hazards in Case

of Fire

Specific Fire Fighting

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

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

Keep unnecessary people away. Wear respiratory protection.

Special Protective Equipment and Precautions for Fire

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.

Large spills :Evacuate area. Ensure adequate ventilation. Do not discharge into the drains, surface waters or

Environmental Precautions

Cleaning Up

Methods and Equipment for Containment and

small spill: absorb with material such as noncombustible materialwash 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.

ground water directly.

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.

Handling

Precautions for Safe 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 Refer to "Section 10 - STABILITY AND REACTIVITY".

Incompatible Substances or

Storage

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

Storage

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. Wear respiratory protection.

Personal Protective

Respiratory Equipment Protection

Hand Protection Wear protective gloves.

Eye/Face Protection Wear eye protection/face protection.

Wear protective clothing. Skin and Body

Protection

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid liquid Form

Colour Colorless and transparent

Odour Solvent odor Melting Point/Freezing Not applicable

Point

Boiling Point or Initial Not applicable

Boiling Point and Boiling

Ranges

Flammability No data available Lower and Upper Lower Limit Not applicable

Explosion Limit / Flammability Limit

Upper Limit Not applicable

Flash Point No data available Auto-Ignition No data available

Temperature

Decomposition No data available

Temperature

No data available Kinematic Viscosity No data available Solubility Not applicable Partition Coefficient : n-No data available

Octanol/Water

Vapour Pressure No data available Density and/or Relative No data available

Density 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 No information available

Reaction

Conditions to Avoid No information available Incompatible Substances No information available

or Mixtures

Hazardous Decomposition No information available

Products

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. Skin Corrosion/Irritation Category 2. Serious Eye Damage/Eye Category 2A. Irritation Respiratory Sensitization Category 1. Skin Sensitization Category 1. Germ Cell Mutagenicity Unable to classify. Carcinogenicity Category 2. Reproductive Toxicity (Reproductive toxicity) Not classified. Classification not possible. Category 2. (Reproductive toxicity, effects on or via lactation) Unable to classify. Category 1(respiratory apparatus). Specific Target Organ Toxicity (Single Exposure) Category 2(blood). Category 3(narcotic effect). Specific Target Organ Category 1(respiratory apparatus). Toxicity (Repeated Exposure) 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 Category 3. Environment, Short-Term (Acute) Hazardous to the Aquatic Not classified. Environment, Long-Term (Chronic) Classification not possible.

> No data available No data available

> No data available

No data available

Ecotoxicity

Persistence

Mobility in Soil

Bioaccumulative Potential

Hazardous to the Ozone

Unable to classify.

Layer

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste

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

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 METHYL METHACRYLATE, MONOMER, STABILIZED Proper Shipping

Class

Packing Group П

Marine Pollutant

Liquid Substance Transported in Bulk

According to MARPOL 73/78,

Annex II, the IBC Code

Regulatory

Conform to the provisions of ICAO/IATA.

Conform to the provisions of the Ship Safety Law.

Information by Air

UN No. 1247

Proper Shipping METHYL METHACRYLATE, MONOMER, STABILIZED

Class

3 II

Packing Group Regulations in Japan

Regulatory

Complies with the Fire Service Act. Information by Road

Not applicable

Applicable

Regulatory

Information by Sea

UN No. 1247 METHYL METHACRYLATE, MONOMER, STABILIZED Proper Shipping

Class

Transported in Bulk

Packing Group П

Marine Pollutant Not applicable Liquid Substance Applicable

According to MARPOL 73/78,

Annex II, the IBC

Code Regulatory

Conform to the provisions of the Civil Aeronautics Law.

Information by Air

UN No. 1247

METHYL METHACRYLATE, MONOMER, STABILIZED Proper Shipping

Class 3 Packing Group П 129P

Emergency Response Guide Number

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