

Preparation Date 2021/03/02

## Safety Data Sheet (SDS)

### Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier TEMPRON – Liquid  
 Product Code 201215-3  
 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

### Section 2 – HAZARDS IDENTIFICATION

#### GHS Classification of the Chemical

Physicochemical Flammable liquids Category 2  
 Health Hazards 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)

	<p>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)</p> <p>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 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)</p> <p>IF exposed or concerned: Call a doctor.(P308+P311)</p> <p>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)</p>
Response	
Storage	<p>Store in a well-ventilated place. Keep container tightly closed.(P403+P233)                  Store in a well-ventilated place. Keep cool.(P403+P235)</p>
Disposal	<p>Store locked up.(P405)                  Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture Mixture

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

Section 4 – FIRST AID MEASURES

Inhalation	<p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.                  If experiencing respiratory symptoms call a doctor.</p>
Skin Contact	<p>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.                  IF exposed or concerned: Call a doctor.</p>
Eye Contact	<p>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.</p>
Ingestion	<p>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.</p>

Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire.
Unsuitable Extinguishing Media	When dust occurs, use dry sand. 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. Keep unnecessary people away.
Special Protective Equipment and Precautions for Fire	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 materialwash thoroughly after handling
Prevention Measures for Secondary Accidents	Large spills: Dike spills and dispose of in safe area.  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	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.
Storage	Prevents Handling of Incompatible Substances or Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY".  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)
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Methyl methacrylate	TWA 50 ppm, STEL 100 ppm
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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 electricity.
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		No data available
Boiling Point or Initial Boiling Point and Boiling Ranges		Not applicable
Flammability		No data available
Lower and Upper Explosion Limit / Flammability Limit	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		No data available
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		Stable under normal conditions of use.
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.
	Dermal	Not classified.
	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 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.

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.

Classification not possible.

Ecotoxicity  
Persistence  
Bioaccumulative Potential

No data available

No data available

No data available

Mobility in Soil  
Hazardous to the Ozone  
Layer

No data available

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.

Section 14 – TRANSPORT INFORMATION

International Regulations  
Regulatory  
Information by Sea  
UN No.  
Proper Shipping  
Class  
Packing Group  
Marine Pollutant

Conform to the provisions of IMO.

1247

METHYL METHACRYLATE, MONOMER, STABILIZED

3

II

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 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