35 Fraser Court, Unit 2
Barrie, ON L4N 5J5
1-888-919-8842

SAFETY DATASHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label: **GENTEM DURACOAT MMA ROAD MARKING PAINT**

Other means of identification: 98:2 MMA ROAD MARKING PAINT
Product Code: GT3001, GT3002-2

Product use : Use in road and construction products.
Area of application : For industrial/professional use only.
Chemical family : Mixture

Name, address, and telephone number of the supplier:
Gentem Inc.
35 Fraser Court, Unit 2
Barrie, Ontario L4N 5J5
Supplier's Tel # : 888-919-8842
Supplier's Email : info@gentem.ca

Name, address, and telephone number of the manufacturer:
See supplier

24 Hr. Emergency Tel # : **CHEMTREC**: 1-800-424-9300 or +1-703-527-3887 (24/7)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
This product is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Label elements

Hazard Pictogram(s)

Signal Word
Danger

Hazard Statement(s)

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

Label Precautionary Statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see on this label).

P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, or foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local rules and regulations.

SDS Precautionary Statement(s)

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P363	Wash contaminated clothing before reuse.

Other hazards

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause sore throat. May cause mild skin irritation. May be harmful if absorbed through the skin. May be harmful if inhaled. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS #	Concentration (%wt)
n-Butyl Acrylate	141-32-2	3.5-10
Methyl Methacrylate	80-62-6	3.5-10
Triethyleneglycol Dimethacrylate	109-16-0	1.5-3
N,N-bis-(2-hydroxypropyl)-p-toluidine	38668-48-3	<0.3
Silica Sand	14808-60-7	15-25
Titanium Dioxide	13463-67-7	2-10

The exact concentrations of the above listed chemicals are being withheld as a trade secret. The ingredients listed are encapsulated within the matrix; therefore, no exposure to these materials is expected during proper use/handling of this product.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Inhalation : Move person to fresh air and keep comfortable for breathing. If breathing has stopped give artificial respiration. If breathing is difficult give oxygen by qualified medical personnel only. Obtain medical attention if coughing or other symptoms persist.

Skin Contact : Remove/take off all contaminated clothing. Flush skin with running water and wash affected areas thoroughly with water. Wash contaminated clothing before reuse. If skin irritation persists contact a physician.

Eye Contact : Rinse with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists obtain medical attention.

Most Important Symptoms and Effects (both acute and delayed)
: Excessive or prolonged exposure can cause the following: Headache confusion Irritation Product has dermal defatting effect.

Indication of any immediate medical attention and special treatment needed
: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

General Fire Hazards

: Vapours are heavier than air and can form an explosive mixture with air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Remove sources of ignition. Also keep emptied containers away from sources of heat and ignition. Keep out unprotected persons. In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely. Containers exposed to heat (fire) may build up pressure. Cool by splashing with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media

Suitable Extinguishing Media

: Use Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam.

Unsuitable Extinguishing Media

: Do not use a high volume water jet as it may scatter and spread fire.

Hazardous combustion products

: None known.

Special hazards arising from the substance or mixture / Conditions of flammability

: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Closed container may rupture if strongly heated. Vapours may form explosive mixtures with air. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Take action to prevent static discharges. Use explosion-proof equipment. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance.

Special fire-fighting procedures

: Evacuate enclosed and surrounding areas. As in any fire, wear self- contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep spills away from sources of ignition.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Assure sufficient ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Keep away from open flames, hot surfaces and sources of ignition. Vapours can form explosive mixtures with air. Keep out unprotected persons. Avoid spark generation.

Environmental precautions

: Prevent product from getting into drains/surface water/groundwater.

Methods and material for containment and cleaning up

: Remove sources of ignition and ventilate area. All equipment used when handling the product must be grounded. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and

federal laws and regulations. Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment!

Special spill response procedures

: Not available.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take action to prevent static discharges. Use explosion-proof equipment. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance.Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.Remove contaminated clothing and wash it before reuse. Product is supplied in a stabilized form. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Use explosion proof equipment. Take precautionary measures against static discharges. Open container carefully as it may be pressurized. Use portable ventilation if necessary at job site. Ground and bond containers when transferring material. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Keep container tightly closed. Do not eat, drink, smoke or chew tobacco around material. Use only with adequate ventilation. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Container hazardous when empty. Emptied container retains vapor and product residue. Follow all SDS/label precautions even after the container is emptied. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Conditions for safe storage

: Improper disposal or re-use of this container may be dangerous and illegal. Keep away from direct sunlight. Keep containers closed when not in use. Ensure there is good room ventilation. Limit storage of flammable liquids to approved areas equipped with overhead sprinklers. Protect material from contamination (refer to Section 10 for incompatibilities).
Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. Do not heat or cut the empty container with electric or gas torch. Keep in the original container at a temperature not exceeding 30 °C (86 °F). Keep away from heat. Keep away from sparks, flames and other sources of ignition. Fill the container by approximately 90 % only as oxygen (air) is required for stabilization. With
large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.

Incompatible materials

: Not available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Identity	Type	Exposure Limit Values	Source
	REL	10 ppm 55 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	TWA	2 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)

n-butyl acrylate	IDLH	113 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	10 ppm 55 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	10 ppm 55 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL	20 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL	11 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	110 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL	2 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	TWA PEL	2 ppm 11 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
Methyl methacrylate	REL	100 ppm 410 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	PEL	100 ppm 410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	IDLH	1,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	100 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	100 ppm	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)

	AN ESL	50 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	210 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL	210 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	860 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	TWA PEL	50 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	STEL	100 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)

Exposure controls

Ventilation and engineering measures

: Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 8. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Skin protection : On handling of larger quantities: face mask, chemical-resistant boots and apron

Eye / face protection : Use safety glasses (ANSI Z87.1 or approved equivalent).

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance **:** Viscous liquid; paste

Odour	: Fruity
Odour threshold	: < 1ppm
pH	: approx. 7 in Water
Melting point/freezing point	: <-30°C
Initial boiling point and boiling range	: 100 °C (1,013 hPa)
Flash point	: 10 °C (methyl methacrylate)
Flash point (method)	: Not available
Evaporation rate	: > 1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available
Lower flammability limit (% by volume)	: 2.1 %(V) (methyl methacrylate)
Upper flammability limit (% by volume)	: 12.5 %(V) (methyl methacrylate)
Oxidizing properties	: Not available
Explosive properties	: Not explosive as defined by EU hazardous substance law.
Vapour pressure	: 40 hPa (20 °C)
Vapour density	: Not available
Relative density / Specific gravity	: 1.90 to 1.97 g/cm3 (20 °C)
Solubility in water	: Not available
Other solubility(ies)	: None known
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	: Not applicable
Auto-ignition temperature	: not pyrophoric
Decomposition temperature	: No decomposition if used as directed. Stable under normal conditions.
Volatiles (% by weight)	: Not available
Volatile organic compounds (VOCs)	: <100g/L
Absolute pressure of container	: Not applicable
Flame projection length	: Not applicable
Other physical/ chemical comments	: Minimum ignition temperature: 430 °C (methyl methacrylate)
Dynamic viscosity	:>25000 cst

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Polymerization.
Chemical stability	: No decomposition if used as directed. The substance is stable under the specified conditions.
Possibility of hazardous reactions	: Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. Vigorous polymerization is possible when heated /exposed to heat..
Conditions to avoid	: Avoid high temperatures and sources of ignition. Ultraviolet light. The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.
Incompatible materials	: Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents..
Hazardous decomposition products	: None when used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : Yes
Routes of entry skin and eye : Yes
Routes of entry ingestion : Yes
Routes of exposure skin Absorption : Yes

Information on likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Headache. Dizziness.
Skin Contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye irritation.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects

Effect of overexposure - chronic hazards:
This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International
Agency for Research on Cancer (IARC) as a known human carcinogen. Repeated contact may cause allergic reactions.
Information on toxicological effects
The acute effects of this product have not been tested. Data on individual components are tabulated below:

Toxicological information

		Oral LD50	Demal LD50	Gas LC50
80-62-6	Methyl Methacrylate	7872 mg/kg rat	>5000 mg/kg rabbit	19 PPM - 4 h rat
141-32-2	n-butyl acrylate	3050 mg/kg rat	2000 mg/kg rabbit	11.2mg/l-4h rat
38668-48-3	N,N-bis-(2-hydroxypropyl)-ptoluidine	25-200 mg/kg rat	>2000 mg/kg	-
109-16-0	triethyleneglycol dimethacrylate	10,837 mg/kg rat	>2000 mg/kg (mouse)	-

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : The environmental impact of this product has not been fully investigated. DO NOT discharge into sewer or waterways.

Ecotoxicity data:

Name of Name according to EEC	CAS#	Bio.Conc.Factor (BCF)	Octanol-Water par. Coeff (KNOW)
Methyl Methacrylate	80-62-6	4	1.38
n-butyl acryl	141-32-2	17	2.36
Crystalline Silica,	14808-60-7	not available	not available
Triethyleneglycol dimethacrylate	109-16-0	16	1.88
N,N-bis-(2-hydroxypropyl)-ptoluidine	38668-48-3	not available	not available

Persistence and degradability : Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.
Bioaccumulative potential : No data is available on the product itself.
Mobility in soil : The product itself has not been tested.
Other adverse effects : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling of Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in Sections 7 and 8.
Methods of Disposal : Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.
Contaminated Packaging : Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling. Do not reuse containers.

SECTION 14. TRANSPORT INFORMATION

SPECIAL TRANSPORT PRECAUTIONS: No Information
Road Transport
UN Number: UN1263
Shipping Name: Paint Transport Hazard
Class: 3
Packing Group: II

ERG No: 128

Sea Transport
UN Number: UN1263 IMDG/GGVSee
Class: 3
EmS-No: F-E, S-E
Packing Group: 2
Shipping Name: Paint

Primary Shipping Hazard: No Information
Marine Pollutant: Not A Marine Pollutant
Shipping Hazard (Marine Pollutant): No Information

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Canadian regulation
The National Pollutant Release Inventory (NPRI)

Component / CASRN	CAS#	NPRI (VOC)
methyl methacrylate	80-62-6	yes
Butyl acrylate	141-32-2	yes

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.
US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER
RCRA HAZARDOUS WASTE NO. D001

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity	% by weight
n-butyl acrylate	1.0%
Methyl methacrylate	1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity: phenol

Inventory Status:

China Inv. Existing Chemical Substances:	Included on Inventory.
US TSCA Inventory:	Included on Inventory.
Canada DSL Inventory List:	Included on Inventory.
Canada NDSL Inventory:	Not on Inventory.

SECTION 16. OTHER INFORMATION

Preparation Date (mm/dd/yyyy)
: 04/28/2025

Other special considerations for handling
: Provide adequate information, instruction and training for operators.

Prepared by
: Gentem Inc.
35 Fraser Court, Unit 2
Barrie, ON L4N 5J5

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