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 WATERBORNE ROAD MARKING PAINT**

Other means of identification: WATERBORNE TRAFFIC MARKING PAINT
Product Code: GT5001, GT5002

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
Warning

Hazard Statement(s)
H302: Harmful if swallowed

Precautionary Statement(s)
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.
P308+P313: IF exposed or concerned: Get medical advice/attention.

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Titanium dioxide	Not available	13463-67-7	3.0-7.0
Methyl Alcohol	Methanol	67-56-1	1.0-5.0
Ammonia	Ammonium hydroxide	1331-21-6	0.1-1.0
Calcium Carbonate	Limestone	1317-65-3	30.0-60.0

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 soap and water. Wash contaminated clothing before reuse. If skin irritation persists contact a physician.

Eye Contact : Rinse with plenty of water. 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)
: No information available.

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

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
: Use water fog or fine spray, foams, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media
: Do not use a solid water stream as it may scatter and spread fire.

Flammability classification (OSHA 29 CFR 1910.106)
: Not available.

Hazardous combustion products
: None known.

Special hazards arising from the substance or mixture / Conditions of flammability
: Product can splatter above 100C/212F. Dried product can burn.

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.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in Sections 7 and 8. Material can create slippery conditions.

Environmental precautions

: Avoid releases to the environment and prevent material from entering sewers, natural waterways or storm water management systems.

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer container for disposal according to local/national regulations. Contact the proper local authorities.

Special spill response procedures

: Not available.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only in well-ventilated areas. Avoid breathing mist or vapor. Avoid contact with skin, eyes, and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage

: Store locked up. Store in cool/well ventilated and dry place out of sun. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep from freezing, product stability may be affected. Stir before use.

Incompatible materials

: Not available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	**ACGIH TLV**		**OSHA PEL**	
	TWA	**STEL**	**PEL**	**STEL**
Titanium dioxide	10mg/m^3	N/Av	15mg/m^3 (total dust)	N/Av
Methyl Alcohol	200ppm (skin)	250ppm (skin)	200ppm (260mg/m^3)	N/Av
Ammonia	25ppm	35ppm	50ppm (35mg/m^3)	N/Av
Calcium Carbonate	N/Av	N/Av	15mg/m^3 (total dust) 5mg/m^3 (respirable dust)	N/Av

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with

OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection : Safety glasses with side shields or chemical splash goggles.

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

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	**:** White thick liquid
Odour	**:** Ammonia
Odour threshold	**:** Not applicable
pH	**:** >9.5
Melting point/freezing point	**:** Not available
Initial boiling point and boiling range	**:** 100°C (212°F) Water
Flash point	**:** Not available
Flash point (method)	**:** Not available
Evaporation rate	**:** Not available
Flammability (solid, gas)	**:** Not available
Lower flammability limit (% by volume)	**:** Not available
Upper flammability limit (% by volume)	**:** Not available
Oxidizing properties	**:** Not available
Explosive properties	**:** Not available
Vapour pressure	**:** Not available
Vapour density	**:** Not available
Relative density / Specific gravity	**:** 10.5±0.2 lbs/gal
Solubility in water	**:** Soluble
Other solubility(ies)	**:** None known

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not applicable

Auto-ignition temperature	**:** Not applicable
Decomposition temperature	**:** Not available
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	**:** No additional information

SECTION 10. STABILITY AND REACTIVITY

Reactivity	**:** Not normally reactive.
Chemical stability	**:** Stable under normal conditions.
Possibility of hazardous reactions	**:** None known.
Conditions to avoid	**:** Direct sources of heat. Do not use in areas without adequate ventilation. Avoid with incompatible materials. Do not freeze or overheat.
Incompatible materials	**:** None known.

Hazardous decomposition products : May yield acrylic monomers.

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

Potential health effects:

Signs and symptoms of short-term (acute) exposure

Signs and symptoms Inhalation : May cause irritation of respiratory tract.

Signs and symptoms ingestions : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms skin : Direct skin contact may cause irritation.
Signs and symptoms eyes : Direct eye contact may cause irritation.

Potential Chronic Health Effects : None known
Mutagencity : Not expected to be mutagenic in humans.
Carcinogenicity : Not classifiable as a human carcinogen. Contains titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B). The ingredients listed in Section 3 are encapsulated within the matrix, therefore, no exposure to these materials is expected during proper use/handling of this product.
Reproductive effects and teratogenicity : Not expected to cause reproductive effects.
Sensitization to material : Not expected to be a skin or respiratory sensitizer.
Specific target organ effects : This product is not expected to cause target organ toxicity through single or repeated exposures.
Medical conditions aggravated by overexposure : None known.
Synergistic materials : No information available.
Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC_{50} (4hr)	LD_{50}	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Titanium dioxide	>6.82mg/kg (dust)(No mortality)	>25000mg/kg	>10000mg/kg
Methyl Alcohol	> 5000ppm/6H (4.1 mg/L/4H (vapour))	5628 mg/kg The estimated human lethal dose is: 300-1000mg/kg	> 393 mg/kg (Monkey) 15 800mg/kg (rabbit)
Ammonia	3670ppm/4H (cited as 7338ppm/1hour)	350 mg/kg	Not Available
Calcium carbonate	>3mg/L (aerosol)(No mortality)	6450mg/kg	>2000mg/kg (No mortality)

Other important toxicological hazards : No information available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Do not release, unmonitored, into the environment. See below for individual ingredient ecotoxicity.

Ecotoxicity data:

Ingredients	CAS#	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Titanium dioxide	13463-67-7	>100mg/L (Japanese ricefish)	N/Av	None
Methyl Alcohol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28day (Fathead minnow) (QSAR)	None
Ammonia	1331-21-6	0.163-1.09 mg/L (Rainbow Trout)	Not Available	1
Calcium carbonate	1317-65-3	>100mg/L (Rainbow trout)	N/Av	None

Ingredients	CAS#	Toxicity to Daphnia		
		EC50 / 96h	NOEC / 21 day	M Factor
Titanium dioxide	13463-67-7	>100mg/L (Daphnia magna)	N/Av	None
Methyl Alcohol	67-56-1	10000mg/L (48hr) (Daphnia magna)	208mg/L (QSAR)	None
Ammonia	1331-21-6	101mg/L (Water flea)	Not Available	None
Calcium carbonate	1317-65-3	>100mg/L (Daphnia magna)	N/Av	None

Ingredients	CAS#	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Titanium dioxide	13463-67-7	>100mg//72hr (Green algae)	N/Av	None
Methyl Alcohol	67-56-1	22000mg/L (96hr) (Green algae)	Not Available	None
Ammonia	1331-21-6	Not Available	Not Available	None
Calcium carbonate	1317-65-3	>14mg/L/72hr (Green algae)	14mg/L/72hr	None

Persistence and degradability : No data is available on the product itself.
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 : Dispose of in accordance with all federal, state, provincial and local regulations.
RCRA : It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None	Not regulated	Not regulated	None	
49CFR/DOT Addtitional information	None				
TDG	None	Not regulated	Not regulated	None	
TDG Additional information	None				

Special precautions for user : Appropriate advice on safety must accompany the package.
Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This information is not available.

SECTION 15. REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus concentration
Titanium dioxide	13463-67-7	Yes	None	None	No	N/Ap
Methyl Alcohol	67-56-1	Yes	5000lbs/2270kg	None	Yes	1%
Ammonia	1331-21-6	Yes	100lbs/45.4kg	500lbs TPQ	Yes	1%
Calcium carbonate	1317-65-3	Yes	None	None	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 372 Hazard Classes: Not available

US State Right to Know Laws:
The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Titanium dioxide	13463-67-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
Methyl Alcohol	67-56-1	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Ammonia	1331-21-6	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Calcium carbonate	1317-65-3	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes

Canadian Information:
Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL

International Information:
Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.
Methyl Alcohol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186

International Information continued:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Ammonia	1331-21-6	231-635-3	Present	Present	(1)-391	KE-01625	Present	HSR001035
Calcium carbonate	1317-65-3	215-279-6	Present	Present	(1)-122	KE-21996	Present	May be used as a single component

								chemical under an appropriate group standard.

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substance
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
OECD: Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance control Act
TWA: Time Weighted Average

Preparation Date (mm/dd/yyyy)
: 05/13/2024

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

Prepared by
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