

SAFETY DATASHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label: GENTEM PREFORM THERMOPLASTIC

Other means of identification: Preformed Thermoplastic Road Marking Material

Product Code: GT2001, GT2002

Product use : Use in road and construction products.

Area of application : For industrial/professional use only.

Product Type : Solid

Name, address, and telephone number Name, address, and telephone number of

of the supplier: the manufacturer:

Gentem Inc. See supplier

Gentem Inc. 35 Fraser Court, Unit 2

Barrie, Ontario L4N 5J5

Supplier's Tel # : 888-919-8842 Supplier's Email : info@gentem.ca

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

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Not classified.

Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Supplemental label elements : Percentage of the mixture consisting of ingredient(s) of unknown acute

oral toxicity: 10%

: Percentage of the mixture consisting of ingredient(s) of unknown acute

dermal toxicity: 10%

: Percentage of the mixture consisting of ingredient(s) of unknown acute

inhalation toxicity: 100%

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture
Other means of identification : Not available.

Chemical name	CAS#	Concentration (%wt)
Calcium Carbonate	471-34-1	60-80
Titanium Dioxide	13463-67-7	2-10

⁽¹⁾ The actual concentration or actual concentration range is withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST-AID MEASURES



Description of first aid measures

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin Contact : Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Get medical attention if symptoms occur.

Eye Contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Get medical attention if

irritation occurs.

Most Important Symptoms and Effects (both acute and delayed)

: No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following

materials: carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable

training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of

For emergency responders : If specialized clothing is required to deal with the spillage, take note of

any information in Section 8 on suitable and unsuitable materials. See

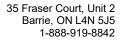
also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused

environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up





Small Spill

: Move containers from spill area. Vacuum or sweep up material and place in a

designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

Large Spill : Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section

13 for waste disposal.

Special spill response procedures

: Not available.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. **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

: Store between the following temperatures: 5 to 25°C (41 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient name	Exposure limits
calcium carbonate	CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours.



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Exposure controls

Ventilation and engineering measures

: Good general ventilation should be sufficient to control worker exposure to

airborne contaminants.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets

the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other

important aspects of use.

Skin protection : Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk assessment

indicates this is necessary.

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Eye / face protection : Safety eyewear complying with an approved standard should be used when a

risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety

glasses with side-shields.

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 : Solid
Color : White
Odour : Odourless
Odour threshold : Not available.
pH : Not available.

Melting point/freezing : 90 to 120°C (194 to 248°F)

point

Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: >230°C (>446°F)

Flash point (method) : Not available Evaporation rate : Not available Flammability : Not available

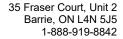
(solid, gas)

Lower flammability : Not available

limit (% by volume)

Upper flammability limit : Not available

(% by volume)





Oxidizing properties : Not available

Explosive properties : Not explosive as defined by EU hazardous substance law.

Vapour pressure : Not available Vapour density : Not available : 1.9 to 2.1 g/cm³ Relative density /

Specific gravity

Solubility in water : Insoluble in the following materials: cold water and hot water.

Other solubility(ies) : None known Partition coefficient: : Not available. : Not applicable **Auto-ignition**

temperature

: not pyrophoric

Decomposition

: Under normal conditions of storage and use, hazardous decomposition

temperature products should not be produced.

Volatiles (% by weight) : Not available

Volatile organic : Not available compounds (VOCs)

Absolute pressure of

container

: Not applicable

Flame projection length: Not applicable

Other physical/

chemical comments

: Minimum ignition temperature: 430 °C (methyl methacrylate)

SECTION 10. STABILITY AND REACTIVITY

: No specific test data related to reactivity available for this product or its Reactivity

ingredients.

Chemical stability : The product is stable.

Possibility of hazardous: Polymerization with heat evolution may occur in the presence of radical forming

reactions substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

Vigorous polymerization is possible when heated /exposed to heat...

: Keep away from water or moist air. Conditions to avoid

Incompatible materials : No specific data.

: Under normal conditions of storage and use, hazardous decomposition Hazardous

decomposition products products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
calcium carbonate	LD50 Dermal	Rat - Male	>2000 mg/kg	-
	LD50 Oral	Female Rat	6450 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure	Observation
calcium carbonate	Eyes - Severe irritant	Rabbit	24 hours 750 ug	-
	Skin - Moderate irritant	Rabbit	24 hours 500 mg	-

Conclusion/Summary

Skin : Not available. : Not available. Eyes Respiratory : Not available.

Sensitization

Conclusion/Summary

: Not available. Skin Respiratory : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity



Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

: Not available.

Specific target organ toxicity (repeated exposure)

: Not available.

Aspiration hazard :Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects

Eye contact
Inhalation
Skin contact
Ingestion
Skin contact
Inhalation
Skin contact
Ingestion
Ingest

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

Potential immediate effects : Not available. Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Preformed thermoplastic	13750	2750	N/A	N/A	N/A
calcium carbonate	6450	2500	N/A	N/A	N/A

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
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calcium carbonate	Acute EC50 >100 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 >56000 ppm Fresh	Fish - Gambusia affinis - Adult	96 hours
	water Chronic NOEC 61 mg/g Fresh	Fish - Oncorhynchus mykiss -	28 days
	water	Juvenile (Fledgling, Hatchling,	-
		Weanling)	48 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia	
	Acute LC50 6.5 mg/l Fresh water	dubia - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine	Daphnia - Daphnia pulex -	
	water	Neonate	96 hours
		Fish - Fundulus heteroclitus	

Conclusion/Summary: Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects : No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

Methods of Disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

	TDG Classification	DOT Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)		-	-	-	
Packing group		-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user



Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not available.

SECTION 15. REGULATORY INFORMATION

Canadian lists

Canadian NPRI :None of the components are listed.
CEPA Toxic substances : None of the components are listed.
Canada inventory : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

SECTION 16. OTHER INFORMATION

Key to abbreviations

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

HPR = Hazardous Products Regulations

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From

Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

N/A = Not available UN = United Nations

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: 19/11/2019

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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