

Safety Data Sheet



Section 1. Identification

Product Code: 884094
Product Name: TM AASHTO WHT PERM EXT
Product Type: Thermoplastic
Recommended Use: Traffic Markings
Supplied by: Ennis-Flint, Inc.
 4161 Piedmont Parkway, Suite 370
 Greensboro, NC 27410
 T: 800.331.8118

Emergency Telephone: Chemtrec 1-800-424-9300

2. Hazards Identification

EMERGENCY OVERVIEW: Sensitizer. This product contains a component suspected of causing cancer. However, it is in a non-respirable form and inhalation is unlikely to occur from exposure. This classification is relevant when exposed to dust or powder form only (e.g. sanding, grinding).

GHS Classification

Carc. 2, Skin Sens. 1

Symbol(s) of Product



Signal Word

Warning

GHS HAZARD STATEMENTS

Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, category 2	H351	Suspected of causing cancer.

GHS PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Calcium Carbonate	1317-65-3	25-50	No Information	No Information
Glass Oxide; Glass	65997-17-3	25-50	No Information	No Information
Titanium Dioxide	13463-67-7	2.5-10	No Information	No Information
Proprietary	Proprietary	2.5-10	No GHS Flavor/ Country combination found	No GHS Flavor/Country combination found

4. First-aid Measures



FIRST AID - GENERAL ADVICE: Consult a physician if symptoms persist.

FIRST AID - INHALATION: Move to fresh air.

FIRST AID - INGESTION: Do NOT induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

FIRST AID - SKIN CONTACT: In case of BURNS, remove patient from heat source. Immediately cool affected skin for as long as possible with cold water. Remove smoldering clothing, including shoes, boots and jewelry unless adhering to skin. Do not remove clothing if adhering to skin. Do not attempt to remove the molten thermoplastic from the skin. Removal could result in severe tissue damage. Cover patient with dry clean sheet. Conduct primary survey. If indicated, transport patient to emergency treatment facility. Wash affected area immediately with soap and plenty of water. Remove contaminated clothing and launder before reuse. Consult a physician if symptoms persist.

FIRST AID - EYE CONTACT: Contact with molten materials requires immediate medical assistance. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if symptoms persist.

MOST IMPORTANT SYMPTOMS AND EFFECTS: None under normal processing.

NOTES TO PHYSICIAN: None known based on information supplied.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ensure adequate ventilation. Take up mechanically. Keep in suitable and closed containers for disposal. Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Allow molten material to cool. Then dispose of according to federal and state regulations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

EMERGENCY ADVICE: Under normal usage or contained spills, this material should not pose a significant emergency risk.

PERSONAL PRECAUTIONS: Use personal protective equipment.

7. Handling and Storage



HANDLING: Ensure adequate ventilation. Avoid breathing vapor, mists or dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid dust formation. Fine dust dispersed in air may ignite. Do not reheat product packaged in light metal containers. The light metal containers will not safely support the movement or transfer of the product in a hot, molten form. Do not heat over 260°C/500°F in a closed container. This product when heated to above 260°C/500°F can lead to flashing. Appropriate protective equipment must be worn when mixing and applying this product. The thermoplastic bag can be hazardous when empty, because it can retain product residue. Therefore do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur. Always obey hazard warnings and handle containers as if they were full. The meltable bag is compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Calcium Carbonate	N.E.	N.E.	15 mg/m ³	N.E.
Glass Oxide; Glass	N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	10 mg/m ³	N.E.	15 mg/m ³	N.E.
Proprietary	N.E.	N.E.	N.E.	N.E.
Crystalline Silica, Quartz	0.025 mg/m ³	N.E.	0.05 mg/m ³	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation
Sk = Skin Sensitizer N.E. = Not Established

Personal Protection



RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



SKIN PROTECTION: Protective gloves/clothing. Use of long sleeved shirts is required when handling molten material.



EYE PROTECTION: Safety glasses with side-shields. Use of a faceshield is recommended when handling molten material.



OTHER PROTECTIVE EQUIPMENT: Eyewash stations, safety showers, ventilation systems.



HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.



ENGINEERING CONTROLS: Use in a well ventilated area.

9. Physical and Chemical Properties

Appearance:	White	Physical State:	Solid
Odor:	Odorless	Odor Threshold:	Not Established
Density, g/cm³:	1.998	pH:	Not Applicable
Freeze Point, °C:	Not Applicable	Viscosity:	No Information
Solubility in Water:	Insoluble	Partition Coefficient, n-octanol/water:	Not Applicable
Decomposition temperature, °C	Not Applicable		
Boiling Range, °C:	Not Determined	Explosive Limits, %:	Not Determined
Combustibility:	Does not Support Combustion	Flash Point, °C:	>260
Evaporation Rate:	N/A	Auto-Ignition Temperature, °C	>260
Vapor Density:	Heavier than air	Vapor Pressure, mmHg:	Not Applicable

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

REACTIVITY: Stable under normal conditions.

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Avoid temperatures above 260 °C. Dust formation. Dust may form explosive mixture in air. Heat, flames and sparks.

INCOMPATIBILITY: None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Nitrogen oxides.

11. Toxicological Information



Practical Experiences

MOST IMPORTANT SYMPTOMS AND EFFECTS: None under normal processing.

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of dust in high concentration may cause irritation of respiratory system. In molten state, the material does not give off fumes that are toxic or injurious to persons or property. However, excessive inhalation of vapors in molten state can cause nose and throat irritation, may cause nervous system depression characterized by headache, dizziness, nausea, staggering gait, confusion and unconsciousness.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may cause irritation to mucous membranes.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Direct skin contact may cause irritation. The molten product can cause serious burns. May cause allergic skin reaction.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Direct eye contact may cause irritation. The molten product can cause serious burns.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage. 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.

CARCINOGENICITY: This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Inhalation, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
1317-65-3	Calcium Carbonate	> 2000 mg/kg	> 2000 mg/kg	>20001 ppm (Gas/Mist)
65997-17-3	Glass Oxide; Glass	>2000 mg/kg	> 2000 mg/kg	>20001 ppm (Gas/Mist)
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	N.I.	>20001 ppm (Gas/Mist)
Proprietary	Proprietary	> 2000 mg/kg	> 2000 mg/kg	>20001 ppm (Gas/Mist)
14808-60-7	Crystalline Silica, Quartz	>2000 mg/kg	> 2000 mg/kg	>20001 ppm (Gas/Mist)

N.I. = No Information

12. Ecological Information

ECOLOGICAL INFORMATION: The environmental impact of this product has not been fully investigated. Do not contaminate ponds, waterways or ditches with this material.

PRESISTENCE AND DEGRADABILITY: No Information

BIOACCUMULATIVE POTENTIAL: No Information

MOBILITY: No Information

OTHER ADVERSE ECOLOGICAL EFFECTS: No Information

13. Disposal Information



Product

DISPOSAL METHOD: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of contents/ container in accordance with the local/regional/national/international regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ensure adequate ventilation. Take up mechanically. Keep in suitable and closed containers for disposal. Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

CONTAMINATED PACKAGING: Dispose of contents/ container in accordance with the local/regional/national/international regulations.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: When in use, this product is elevated temperature liquid, n.o.s. (compound pavement marking), UN3257, Hazard Class 9, Packing Group III.

Road Transport

UN Number:	Not Regulated
Shipping Name:	Not Regulated
Transport Hazard Class:	Not Regulated
Packing Group:	Not Applicable
ERG No:	Not Regulated

Sea Transport

UN Number:	Not Regulated
Shipping Name:	Not Regulated
IMDG Class:	Not Regulated
Packing Group:	Not Applicable
EmS-No:	Not Regulated
Marine Pollutant:	Not A Marine Pollutant

Air Transport

UN Number:	Not Regulated
Shipping Name:	Not Regulated
IATA Class:	Not Regulated
Packing Group:	Not Applicable

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Respiratory or Skin Sensitization

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are hazardous or among the top five components in this product.

<u>Chemical Name</u>	<u>CAS-No.</u>
Calcium Carbonate	1317-65-3
Glass Oxide; Glass	65997-17-3
Rosin, Maleated, Polymer With Glycerol	68038-41-5
Titanium Dioxide	13463-67-7
Proprietary	Proprietary
Crystalline Silica, Quartz	14808-60-7

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS-No.</u>
Calcium Carbonate	1317-65-3
Glass Oxide; Glass	65997-17-3
Rosin, Maleated, Polymer With Glycerol	68038-41-5
Titanium Dioxide	13463-67-7
Proprietary	Proprietary
Crystalline Silica, Quartz	14808-60-7

CALIFORNIA PROPOSITION 65 CARCINOGENS

WARNING

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
Titanium Dioxide	13463-67-7
Crystalline Silica, Quartz	14808-60-7

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations.

16. Other Information

Revision Date: 2/23/2021 **Supersedes Date:** 2/2/2021

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	3	Flammability:	1	Reactivity:	0	Personal Protection:	X
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NFPA Ratings:

Health:	1	Flammability:	1	Reactivity:	0	Hazards:	N.I.
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user.