

# Safety Data Sheet



according to OSHA Hazard Communication  
29 CFR Part 1910.1200

according to Regulation (EC)  
No. 1907/2006 Article 31

## Section 1. Identification

**Product Code:** 884490

**Product Name:** TM WHT ALK NJ/AA EXTRD

**Product Type:** Thermoplastic

**Recommended Use:** Traffic Markings

**Supplied by:** Ennis-Flint  
A Traffic Safety Solutions Company  
115 Todd Court  
Thomasville, NC 27360  
T: 800.331.8118 (For Technical Inquiries)

**Emergency Telephone:** Chemtrec 1-800-424-9300

## Section 2. Hazard(s) identification

**EMERGENCY OVERVIEW:** 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).

### Classification

### Symbol(s) of Product



### Signal Word

Warning

### GHS Named Chemicals On Label

Titanium Dioxide

### GHS HAZARD STATEMENTS

Carcinogenicity, category 2 H351 Suspected of causing cancer.

### GHS PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.  
P281 Use personal protective equipment as required.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

## Section 3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Titanium Dioxide	13463-67-7	2.5-10	GHS08	H351

Phosphorous Pentoxide 1314-56-3 0.1-1.0 GHS05-GHS06 H314-330

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>EINECS No.</u>	<u>REACH Reg No.</u>	<u>M-Factors</u>
Titanium Dioxide	13463-67-7	236-675-5	not available	0
Phosphorous Pentoxide	1314-56-3	215-236-1	not available	0

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

## Section 4. First-aid measures



**FIRST AID - INHALATION:** Move to fresh air. Consult a physician if symptoms persist.

**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.

**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.

## Section 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

## Section 6. Accidental release measures

**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.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment. Ensure adequate ventilation. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. 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.

## Section 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. Keep away from heat and sources of ignition. 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.

## Section 8. Exposure controls/personal protection

### Ingredients with Occupational Exposure Limits

Chemical Name                      ACGIH TLV-TWA                      ACGIH-TLV STEL                      OSHA PEL-TWA                      OSHA PEL-CEILING

Titanium Dioxide                      10 mg/m3                      15 mg/m3

<u>Name</u>	<u>Percentage</u>	<u>VME mg/m3</u>	<u>VME ppm</u>	<u>OEL Nota</u>
Titanium Dioxide	2.5-10	10	0	15 mg/m3

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.

## Section 9. Physical and chemical properties

<b>Appearance:</b>	white	<b>Physical State:</b>	Solid
<b>Odor:</b>	Odorless	<b>Odor Threshold:</b>	Not Established
<b>Density, g/cm3:</b>	2.097	<b>pH:</b>	NI
<b>Freeze Point, °C:</b>	NI	<b>Viscosity:</b>	NI
<b>Solubility in Water:</b>	Not soluble	<b>Partition Coefficient, n-octanol/water:</b>	NI
<b>Decomposition Temp., °C:</b>	NI		
<b>Boiling Point, °C:</b>	N.I.	<b>Explosive Limits, vol%:</b>	N.I.
<b>Combustibility:</b>	Does not Support Combustion	<b>Flash Point, °C:</b>	>260
<b>Evaporation Rate:</b>	Slower than Diethyl Ether	<b>Auto-ignition Temp., °C:</b>	NI
<b>Vapor Density:</b>	Heavier than air	<b>Vapor Pressure:</b>	NI

(See "Other information" Section for abbreviation legend)

## Section 10. Stability and reactivity

**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** 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.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization does not occur.

## Section 11. Toxicological information



### Practical Experiences

**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 - SKIN CONTACT:** Direct skin contact may cause irritation. The molten product can cause serious burns.

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

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

**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.

### 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>Name according to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Gas LC50</u>
13463-67-7	Titanium Dioxide	> 10000 mg/kg rat	> 10000 mg/kg rabbit	>20001 ppm

N.I. - No Information

## Section 12. Ecological information

**ECOLOGICAL INFORMATION:** The environmental impact of this product has not been fully investigated.

### Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Bio. Conc. Factor (BCF)</u>	<u>Octanol-water par. Coeff (KOW)</u>
13463-67-7	Titanium Dioxide	not available	not available

## Section 13. Disposal considerations



### 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. Do not re-use empty containers.

**European Waste Code:** 080201 waste coating powder

### Uncleaned Packaging

**European Waste Code:** 150110 packaging dangerous residuals

## Section 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
ADR/RID Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Road Tunnel Transport Code:	Not regulated

**Sea Transport**

UN Number:	Not regulated
IMDG/GGVSee Class:	Not regulated
EmS-No:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Marine Pollutant:	Not A Marine Pollutant
Shipping Hazard(Marine Pollutant):	No Information

**Air Transport**

UN Number:	Not regulated
ICAO/IATA Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information

**Section 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:

Acute Health Hazard, Chronic Health Hazard

**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:

<u>Chemical Name</u>	<u>CAS-No.</u>
Titanium Dioxide	13463-67-7
Silicon dioxide, amorphous	7631-86-9
Phosphorous Pentoxide	1314-56-3

**U.S. State Regulations:****NEW JERSEY RIGHT-TO-KNOW:**

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS-No.</u>
Calcium Carbonate	1317-65-3
Silicon Dioxide	99439-28-8
Maleic Modified Rosin Resin	8050-28-0

**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
Silicon Dioxide	99439-28-8
Pentaerythritol Ester of Rosin	8050-26-8
Maleic Modified Rosin Resin	8050-28-0

**CALIFORNIA PROPOSITION 65 CARCINOGENS**

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

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

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 except for the use of the 16 headings.

**WHMIS Class:** D2A, D2B

**Denmark**

**B-Value:** 0.000000

**France**

**Storage Conditions:** No Information

**Professional Illness Table:**

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Professional Illness</u>
13463-67-7	Titanium Dioxide	not available

**Germany**

**VbF-Class:** No Information

**WGK-class:** 0

**Remarks:** WGK 0 = in general not a water pollutant  
WGK 1 = weak water pollutant  
WGK 2 = water pollutant  
WGK 3 = severe water pollutant

**Processing restrictions:\***

**Incident Regulation:**

No Information

**Spain**

Storage Conditions: No Information

**Switzerland**

VOC-Value: 0.00

**United Kingdom**

Storage Conditions: No Information

**Section 16. Other information, including date of preparation of the last revision**

Revision Date: 5/24/2016 Supersedes Date: 3/13/2016

Reason for revision: Statement(s) Changed

Datasheet produced by: Regulatory Department

**HMIS Ratings:**

Health:	1	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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Volatile Organic Compounds, gr/ltr: 0

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H314 Causes severe skin burns and eye damage.  
 H330 Fatal if inhaled.  
 H351 Suspected of causing cancer.

**Icons for GHS Pictograms shown in Section 3 describing each ingredient:**

GHS05



GHS06



GHS08



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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.