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# SAFETY DATA SHEET

#### 1. Identification

Material name: OB TPO 80 MIL FIELD SHEET 78" X 75'

Material: TPO800 503

Recommended use and restriction on use

Recommended use: Article Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone:

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

**EH&S** Department

216-292-5000

## 2. Hazard(s) identification

## **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Inhalation - dust and Category 4 mist)

Carcinogenicity Category 2

**Unknown toxicity - Health** 

Acute toxicity, oral 12.6 %
Acute toxicity, dermal 29.8 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 85 %

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 97.8 % environment Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Warning

**Hazard Statement:** Harmful if inhaled.

Suspected of causing cancer.



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Precautionary Statement:

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal

protective equipment as required.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/doctor if you feel unwell.

Storage: Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical Identity   | CAS number | Content in percent (%)* |
|---------------------|------------|-------------------------|
| Magnesium Hydroxide | 1309-42-8  | 15 - 40%                |
| Titanium dioxide    | 13463-67-7 | 1 - 5%                  |

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

**Ingestion:** Rinse mouth thoroughly.

**Inhalation:** Move to fresh air.

**Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and

water after work.

**Eye contact:** Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed

**Symptoms:** May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

## 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.



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## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

## 6. Accidental release measures

Personal precautions,

protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning

**Notification Procedures:** 

up:

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer. Environmental

manager must be informed of all major spillages.

#### 7. Handling and storage

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage,

including any incompatibilities: Store locked up.

#### 8. Exposure controls/personal protection

**Control Parameters** 

**Occupational Exposure Limits** 



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| Chemical Identity              | type | Exposure Limit Values | Source  |
|--------------------------------|------|-----------------------|---|
| Titanium dioxide               | TWA  | 10 mg/m3              | US. ACGIH Threshold Limit Values (2011)   |
| Titanium dioxide - Total dust. | PEL  | 15 mg/m3              | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000)<br>(02 2006) |

| Chemical name                              | type  | Exposure Limit Values | Source  |
|--|-------|-----------------------|---|
| Titanium dioxide -<br>Total dust.          | TWA   | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide -<br>Respirable fraction. | TWA   | 3 mg/m3               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide                           | TWAEV | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide -<br>Total dust.          | TWA   | 10 mg/m3              | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |

**Appropriate Engineering** 

Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

## Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product.

## 9. Physical and chemical properties

#### **Appearance**

Physical state: solid
Form: solid
Color: White



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Odor: Slight

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

Initial boiling point and boiling range:

Flash Point:

Evaporation rate:

No data available.

No data available.

No data available.

Flammability (solid, gas):

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

No data available.

Relative density: 1

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
Decomposition temperature:
No data available.
Viscosity:
No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

No data available.

**Conditions to Avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

#### 11. Toxicological information

## Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** Moderately irritating to skin with prolonged exposure.

**Eye contact:** Eye contact is possible and should be avoided.



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#### Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** ATEmix: 2.1 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Magnesium Hydroxide In vitro (Bovine, 240 min): Not irritating

Titanium dioxide in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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#### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

## 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Titanium dioxide LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

## Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Titanium dioxide LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental

result

**Aquatic Invertebrates** 

**Product:** No data available.



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| Toxicity to | <b>Aquatic</b> | Plant |
|-------------|----------------|-------|
|-------------|----------------|-------|

**Product:** No data available.

## **Persistence and Degradability**

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

## **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

## Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

## 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

## 14. Transport information

## TDG:

Not Regulated

#### CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated



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## 15. Regulatory information

#### **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

## **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

## **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Magnesium Hydroxide 500 lbs Titanium dioxide 500 lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Titanium dioxide

#### **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

Titanium dioxide



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## US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Titanium dioxide

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## Other Regulations:

**Inventory Status:** 

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List:

All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List:

All components in this product are listed on or

exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: All components in this product are listed on or

exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision



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Version #: 1.0

**Further Information:** No data available.

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.