SAFETY DATA SHEET

1. Identification

Material name: SOLARGARD 6083 SCC BEACH 53 GL
Material: 1120113153D

Recommended use and restriction on use

   Recommended use: Coatings
   Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information
Tremco Incorporated
3735 Green Road
BEACHWOOD OH 44122
US

Contact person: EH&S Department
Telephone: 216-292-5000
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

   Health Hazards
   Germ Cell Mutagenicity Category 1B
   Carcinogenicity Category 2
   Toxic to reproduction Category 1B

   Unknown toxicity - Health
   Acute toxicity, oral 32.41 %
   Acute toxicity, dermal 37.54 %
   Acute toxicity, inhalation, vapor 100 %
   Acute toxicity, inhalation, dust or mist 99.76 %

   Environmental Hazards
   Acute hazards to the aquatic environment Category 3

   Unknown toxicity - Environment
   Acute hazards to the aquatic environment 94.03 %
   Chronic hazards to the aquatic environment 100 %

Label Elements

   Hazard Symbol:
Signal Word: Danger

Hazard Statement: May cause genetic defects.
Suspected of causing cancer.
May damage fertility or the unborn child.
Harmful to aquatic life.

Precautionary Statement:
Prevention: 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 exposed or concerned: Get medical advice/attention.

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

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>3 - 7%</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>0.1 - 1%</td>
</tr>
<tr>
<td>n-(3,4-dichlorophenyl)-n,n-dimethylurea</td>
<td>330-54-1</td>
<td>0.1 - 1%</td>
</tr>
<tr>
<td>**</td>
<td>**</td>
<td>0.1 - 1%</td>
</tr>
<tr>
<td>Methyl benzimidazole-2-yl carbamate</td>
<td>10605-21-7</td>
<td>0.1 - 1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: ** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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.

**Suitable (and unsuitable) extinguishing media**

<table>
<thead>
<tr>
<th>Suitable extinguishing media:</th>
<th>Use fire-extinguishing media appropriate for surrounding materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media:</td>
<td>Do not use water jet as an extinguisher, as this will spread the fire.</td>
</tr>
</tbody>
</table>

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

<table>
<thead>
<tr>
<th>Special fire fighting procedures:</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective equipment for fire-fighters:</td>
<td>Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</td>
</tr>
</tbody>
</table>

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** No data available.

**Methods and material for containment and cleaning up:** Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**Notification Procedures:** 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.

### 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. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Titanium dioxide - Total dust.</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Aluminum oxide - Respirable fraction.</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Aluminum oxide - Total dust.</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>n-(3,4-dichlorophenyl)-n,n-dimethylurea</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>**</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>
### Chemical name
- **Titanium dioxide** - Total dust.
- **Titanium dioxide** - Respirable fraction.
- **Titanium dioxide**
- **Propylene glycol** - Aerosol.
- **Propylene glycol** - Vapor and aerosol, inhalable fraction.

### Exposure Limit Values
- TWA: 10 mg/m³
- TWA: 3 mg/m³
- TWAEV: 10 mg/m³
- TWAEV: 50 ppm, 155 mg/m³

### Source
- Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
- Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
- Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
- Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

### Appropriate Engineering Controls
Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

### 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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

### 9. Physical and chemical properties

#### Appearance
- **Physical state:** liquid
- **Form:** liquid
- **Color:** Red
Odor: Mild
Odor threshold: No data available.

pH: 8 - 10
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: No data available.
Evaporation rate: Slower than Ether
Flammability (solid, gas): No

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.

Vapor pressure: No data available.
Vapor density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density: 1.462

Solubility(ies)
- Solubility in water: Soluble
- 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.


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.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: No data available.

Dermal
Product: ATEmix: 71,154.18 mg/kg

Inhalation
Product: No data available.

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):
- Titanium dioxide in vivo (Rabbit, 24 - 72 hrs): Not irritating
- Propylene glycol (Human): Irritating
- Aluminum oxide in vivo (Rabbit, 24 hrs): Not irritating
- n-(3,4-dichlorophenyl)-n,n-dimethylurea 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

No carcinogenic components identified
Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: May damage fertility or the unborn child.

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
- Propylene glycol
  LC 50 (Fathead minnow (Pimephales promelas), 96 h): 55,770 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
- Propylene glycol
  EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication
  EC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Intoxication
  LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality
- n-(3,4-dichlorophenyl)-n,n-dimethylurea
  LC 50 (Northern quahog or hard clam (Mercenaria mercenaria), 12 d): > 5 mg/l Mortality
  LC 50 (Water flea (Daphnia pulex), 3 h): > 40 mg/l Mortality
  LC 50 (Water flea (Moina macrocopa), 3 h): > 40 mg/l Mortality
- Methyl benzimidazole-2-
  LC 50 (Water flea (Daphnia magna), 48 h): 0.38 - 0.56 mg/l Mortality
yl carbamate | LC 50 (Dungeness or edible crab (Cancer magister), 48 h): > 100 mg/l  
Mortality

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
- Propylene glycol  | NOAEL (Pimephales promelas, 7 d): 11,530 mg/l experimental result
- Aluminum oxide | NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result
- n-(3,4-dichlorophenyl)-n,n-dimethylurea | LC 50 (Oncorhynchus mykiss, 28 d): 4.01 mg/l experimental result

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
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.

Specified substance(s):
- Propylene glycol | Log Kow: -0.92
- n-(3,4-dichlorophenyl)-n,n-dimethylurea | Log Kow: 2.68
- Methyl benzimidazole-2-yl carbamate | Log Kow: 1.52

Mobility in Soil: No data available.
Other Adverse Effects: Harmful to aquatic organisms.

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

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):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-(3,4-dichlorophenyl)-n,n-dimethylurea</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>Methyl benzimidazole-2-y carbamate</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1000 lbs.</td>
</tr>
<tr>
<td>Sodium nitrite</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.
SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
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<tbody>
<tr>
<td>n-(3,4-dichlorophenyl)-n,n-dimethylurea</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>Methyl benzimidazole-2-yl carbamate</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1000 lbs.</td>
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<tr>
<td>Sodium nitrite</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>500 lbs</td>
</tr>
<tr>
<td>n-(3,4-dichlorophenyl)-n,n-dimethylurea</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Kaolin Clay</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Methyl benzimidazole-2-yl carbamate</td>
<td>500 lbs</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>Propylene glycol</td>
</tr>
</tbody>
</table>

US. Massachusetts RTK - Substance List

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
</tr>
</tbody>
</table>

US. Pennsylvania RTK - Hazardous Substances

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>Propylene glycol</td>
</tr>
</tbody>
</table>

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:

Regulatory VOC (less water and exempt solvent): 35 g/l
VOC Method 310: 1.27%

**Inventory Status:**

- **Australia AICS:** One or more components in this product are not listed on or exempt from the Inventory.
- **Canada DSL Inventory List:** One or more components in this product are not 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:** One or more components in this product are not listed on or exempt from the Inventory.
- **China Inv. Existing Chemical Substances:** One or more components in this product are not listed on or exempt from the Inventory.
- **Korea Existing Chemicals Inv. (KECI):** One or more components in this product are not 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:** One or more components in this product are not listed on or exempt from the Inventory.
- **US TSCA Inventory:** One or more components in this product are not listed on or exempt from the Inventory.
- **New Zealand Inventory of Chemicals:** One or more components in this product are not listed on or exempt from the Inventory.
- **Japan ISHL Listing:** One or more components in this product are not 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.

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

- **Revision Date:** 08/17/2015
- **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.