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# SAFETY DATA SHEET

### 1. Identification

Material name: AlphaGuard® BIO Top Coat

Material: 351710BT801

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

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

Contact person:EH&S DepartmentTelephone:216-292-5000

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

# 2. Hazard(s) identification

#### **Hazard Classification**

# **Health Hazards**

Acute toxicity (Inhalation - dust and Category 2 mist)

Respiratory sensitizer Category 1

Acute toxicity (Inhalation - dust and Category 2 mist)

Respiratory sensitizer Category 1
Skin sensitizer Category 1

**Unknown toxicity - Health** 

Acute toxicity, oral 0 %
Acute toxicity, dermal 0 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 0.1 %

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 100 %

environment

Chronic hazards to the aquatic  $$100\ \%$ 

environment

#### **Label Elements**

### **Hazard Symbol:**



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Signal Word: Danger

Hazard Statement: Toxic if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Precautionary Statement: Prevention:

Do not breathe dust or mists. Use only outdoors or in a well-ventilated area.

[In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective

gloves/protective clothing/eye protection/face protection.

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

breathing. If experiencing respiratory symptoms: Call a POISON

CENTER/doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment is urgent (see this label). Wash

contaminated clothing before reuse.

**Storage:** Store in well-ventilated place. Keep container tightly closed. 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 (%)* |
|----------------------------------|------------|-------------------------|
| Homopolymer of HDI               | 28182-81-2 | 60 - 100%               |
| Hexamethylene diisocyanate (HDI) | 822-06-0   | 0.1 - 1%                |

<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:** Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. Move to fresh air. If breathing is difficult, give

oxygen.



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**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Immediately remove

contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical

attention.

**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

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: Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. Do not touch damaged containers or spilled

material unless wearing appropriate protective clothing.

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.



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**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 breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes,

skin, and clothing. Wash hands thoroughly after handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store away from incompatible materials. Store in original tightly closed

container.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

| Chemical Identity                | type | Exposure Limit Values | Source                                  |
|----------------------------------|------|-----------------------|---|
| Hexamethylene diisocyanate (HDI) | TWA  | 0.005 ppm             | US. ACGIH Threshold Limit Values (2011) |

| Chemical name                    | type    | Exposure Limit Values | Source  |
|----------------------------------|---------|-----------------------|---|
| Hexamethylene diisocyanate (HDI) | CEILING | 0.01 ppm              | Canada. British Columbia OELs.<br>(Occupational Exposure Limits for<br>Chemical Substances, Occupational<br>Health and Safety Regulation 296/97,<br>as amended) (07 2007) |
|                                  | TWA     | 0.005 ppm             | Canada. British Columbia OELs.<br>(Occupational Exposure Limits for<br>Chemical Substances, Occupational<br>Health and Safety Regulation 296/97,<br>as amended) (07 2007) |
| Hexamethylene diisocyanate (HDI) | TWAEV   | 0.005 ppm             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|                                  | CEV     | 0.02 ppm              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |



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| Hexamethylene      | TWA | 0.005 ppm | 0.034 | Canada. Quebec OELs. (Ministry of    |
|--------------------|-----|-----------|-------|--------------------------------------|
| diisocyanate (HDI) |     |           | mg/m3 | Labor - Regulation Respecting the    |
|                    |     |           |       | Quality of the Work Environment) (12 |
|                    |     |           |       | 2008)                                |

**Biological Limit Values** 

| Chemical Identity  | <b>Exposure Limit Values</b>  | Source              |
|--|-------------------------------|---------------------|
| Hexamethylene diisocyanate (HDI) (Hexamethylenediamin e (with hydrolysis): Sampling time: End of shift.) | 15 μg/g (Creatinine in urine) | ACGIH BEI (03 2015) |

**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: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter,

cartridge or canister. Contact health and safety professional or

manufacturer for specific information.

**Hygiene measures:** Observe good industrial hygiene practices. Contaminated work clothing

should not be allowed out of the workplace. Avoid contact with skin.

### 9. Physical and chemical properties

#### **Appearance**

Physical state:liquidForm:liquidColor:Pale yellow

Odor: Mild petroleum/solvent
Odor threshold: No data available.

PH: No data available.

Melting point/freezing point: No data available.



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Initial boiling point and boiling range: No data available.

Flash Point: 174 °C 345 °F(Setaflash Closed Cup)

**Evaporation rate:** Slower than Ether

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

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: 0.95

Solubility(ies)

Solubility in water:
Solubility (other):
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
No data available.
Viscosity:
No data available.
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: Alcohols. Amines. Strong acids. Strong bases. Water, moisture.

**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.

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

mucus membranes.

**Skin Contact:** May cause an allergic skin reaction.

**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: 0.43 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Homopolymer of HDI in vivo (Rabbit): Experimental result, Key study

Hexamethylene diisocyanate (HDI)

in vivo (Rabbit): Experimental result, Key study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Hexamethylene in vivo (Rabbit, 24 - 72 hrs): Corrosive

diisocyanate (HDI)

**Respiratory or Skin Sensitization** 

**Product:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause sensitization by inhalation.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**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.

**Aquatic Invertebrates** 

**Product:** No data available.

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

## **Persistence and Degradability**



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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

### 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.



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### 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):

Chemical Identity Reportable quantity

Hexamethylene 100 lbs.

diisocyanate (HDI)

## 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**

**Chemical Identity** Reportable quantity

Hexamethylene 100 lbs.

diisocyanate (HDI)

### SARA 311/312 Hazardous Chemical

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

Homopolymer of HDI 500 lbs Hexamethylene 500 lbs

diisocyanate (HDI)

### 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**

No ingredient regulated by CA Prop 65 present.

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

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

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

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

## US. Pennsylvania RTK - Hazardous Substances

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

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

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

### Other Regulations:



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When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:

6 g/l

**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: All components in this product are 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: 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: 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.

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

**Revision Date:** 07/07/2016

Version #: 2.0

Further Information: No data available.

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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.