

# SAFETY DATA SHEET

## 1. Identification

**Material name:** UNIVERSAL C/P BRONZE  
**Material:** 015101 529

**Recommended use and restriction on use**

**Recommended use:** Colorant  
**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor Information**

Tremco U.S Sealants  
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

Carcinogenicity Category 2

#### Unknown toxicity - Health

|  |         |
|--|---------|
| Acute toxicity, oral                     | 57.33 % |
| Acute toxicity, dermal                   | 98.74 % |
| Acute toxicity, inhalation, vapor        | 100 %   |
| Acute toxicity, inhalation, dust or mist | 99.5 %  |

#### Environmental Hazards

Acute hazards to the aquatic environment Category 1

#### Unknown toxicity - Environment

|  |         |
|--|---------|
| Acute hazards to the aquatic environment   | 44.38 % |
| Chronic hazards to the aquatic environment | 100 %   |

### Label Elements

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** Suspected of causing cancer.  
Very toxic to aquatic life.

**Precautionary Statements:**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

**Response:** If exposed or concerned: Get medical advice/attention. Collect spillage.

**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 (%)* |
|-------------------|------------|-------------------------|
| Titanium dioxide  | 13463-67-7 | 7 - 13%                 |
| Carbon Black      | 1333-86-4  | 5 - 10%                 |
| Iron oxide        | 1309-37-1  | 5 - 10%                 |
| Aluminum oxide    | 1344-28-1  | 0.1 - 1%                |
| Amorphous silica  | 7631-86-9  | 0.1 - 1%                |

\* 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.

### 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 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**

| 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 Contaminants (29 CFR 1910.1000) (02 2006) |
| Carbon Black - Inhalable fraction.    | TWA  | 3 mg/m3  | US. ACGIH Threshold Limit Values (2011)                                     |
| Carbon Black                          | PEL  | 3.5 mg/m3                                      | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Iron oxide - Respirable fraction.     | TWA  | 5 mg/m3  | US. ACGIH Threshold Limit Values (2011)                                     |
| Iron oxide - Fume.                    | PEL  | 10 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Respirable fraction. | TWA  | 1 mg/m3  | US. ACGIH Threshold Limit Values (2011)                                     |
|                                       | PEL  | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total dust.          | PEL  | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Amorphous silica                      | TWA  | 20 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |
|                                       | TWA  | 0.8 mg/m3                                      | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |

| Chemical name                           | type | Exposure Limit Values | Source  |
|---|------|-----------------------|---|
| Diisodecyl phthalate                    | TWA  | 5 mg/m <sup>3</sup>   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide - Total dust.          | TWA  | 10 mg/m <sup>3</sup>  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide - Respirable fraction. | TWA  | 3 mg/m <sup>3</sup>   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide                        | TWA  | 10 mg/m <sup>3</sup>  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide - Total dust.          | TWA  | 10 mg/m <sup>3</sup>  | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Carbon Black - Inhalable                | TWA  | 3 mg/m <sup>3</sup>   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Carbon Black                            | TWA  | 3.5 mg/m <sup>3</sup> | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Carbon Black                            | TWA  | 3.5 mg/m <sup>3</sup> | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Iron oxide - Total dust.                | TWA  | 10 mg/m <sup>3</sup>  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Dust. - as Fe              | TWA  | 5 mg/m <sup>3</sup>   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Fume. - as Fe              | STEL | 10 mg/m <sup>3</sup>  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Respirable fraction.       | TWA  | 3 mg/m <sup>3</sup>   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Fume. - as                 | TWA  | 5 mg/m <sup>3</sup>   | Canada. British Columbia OELs.  |

|                                     |     |          |  |
|-------------------------------------|-----|----------|--|
| Fe                                  |     |          | (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Respirable fraction.   | TWA | 5 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)   |
| Iron oxide - Total dust.            | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)                 |
| Iron oxide - Dust and fume. - as Fe | TWA | 5 mg/m3  | 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.

**9. Physical and chemical properties**

**Appearance**

- Physical state:** liquid
- Form:** Paste
- Color:** Bronze colored
- Odor:** Mild
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.
- Initial boiling point and boiling range:** No data available.
- Flash Point:** 232 °C 450 °F(Setaflash Closed Cup)
- Evaporation rate:** Slower than Ether
- Flammability (solid, gas):** No
- Upper/lower limit on flammability or explosive limits**

|   |   |
|---|---|
| <b>Flammability limit - upper (%):</b>          | No data available.  |
| <b>Flammability limit - lower (%):</b>          | No data available.  |
| <b>Explosive limit - upper (%):</b>             | No data available.  |
| <b>Explosive limit - lower (%):</b>             | No data available.  |
| <b>Vapor pressure:</b>                          | No data available.  |
| <b>Vapor density:</b>                           | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| <b>Relative density:</b>                        | 1.56  |
| <b>Solubility(ies)</b>                          |   |
| <b>Solubility in water:</b>                     | Practically Insoluble   |
| <b>Solubility (other):</b>                      | No data available.  |
| <b>Partition coefficient (n-octanol/water):</b> | No data available.  |
| <b>Auto-ignition temperature:</b>               | No data available.  |
| <b>Decomposition temperature:</b>               | No data available.  |
| <b>Viscosity:</b>                               | No data available.  |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No data available.  |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | No data available.  |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.  |
| <b>Incompatible Materials:</b>             | Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).                |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |   |
|----------------------|---|
| <b>Ingestion:</b>    | May be ingested by accident. Ingestion may cause irritation and malaise.                      |
| <b>Inhalation:</b>   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| <b>Skin Contact:</b> | Moderately irritating to skin with prolonged exposure.  |
| <b>Eye contact:</b>  | Eye contact is possible and should be avoided.  |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                      |                    |
|----------------------|--------------------|
| <b>Oral Product:</b> | No data available. |
|----------------------|--------------------|

**Dermal**  
**Product:** No data available.

**Inhalation**  
**Product:** No data available.

**Repeated dose toxicity**  
**Product:** No data available.

**Skin Corrosion/Irritation**  
**Product:** No data available.

**Specified substance(s):**  
Titanium dioxide in vivo (Rabbit): Experimental result, Supporting study

Carbon Black in vivo (Rabbit): Experimental result, Key study

Iron oxide in vivo (Rabbit): Experimental result, Weight of Evidence study

Aluminum oxide in vivo (Rabbit): Experimental result, Key study

Amorphous silica in vivo (Rabbit): Experimental result, Key study

**Serious Eye Damage/Eye Irritation**  
**Product:** No data available.

**Specified substance(s):**  
Titanium dioxide in vivo (Rabbit, 24 hrs): Not irritating

Carbon Black in vivo (Rabbit, 24 - 72 hrs): Not irritating

Iron oxide in vivo (Rabbit, 1 - 72 hrs): Not irritating

Aluminum oxide in vivo (Rabbit, 24 hrs): Not irritating

Amorphous silica in vivo (Rabbit, 24 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.  
Carbon Black 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

**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.**Specified substance(s):**

Titanium dioxide LC 50 (Oncorhynchus mykiss, 28 d): 7.31 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Carbon Black NOAEL (Salmo sp., 30 d): 17 mg/l QSAR QSAR, Key study

Iron oxide NOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study

Aluminum oxide EC 10 (Pimephales promelas, 7 d): 2.729 mg/l Experimental result, Weight of Evidence study

**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.**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

Very toxic 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):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
|--------------------------|----------------------------|

**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**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
|--------------------------|----------------------------|

|                      |  |
|----------------------|--|
| Diisodecyl phthalate |  |
| Diisodecyl phthalate |  |
| (mixed Is)           |  |

**SARA 311/312 Hazardous Chemical**

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

|                  |         |
|------------------|---------|
| Titanium dioxide | 500 lbs |
| Carbon Black     | 500 lbs |
| Iron oxide       | 500 lbs |
| Aluminum oxide   | 500 lbs |
| Amorphous silica | 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  
Carbon Black  
Iron oxide

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Titanium dioxide  
Carbon Black  
Iron oxide

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Diisodecyl phthalate  
Titanium dioxide  
Carbon Black  
Iron oxide

**US. Rhode Island RTK**

**Chemical Identity**

Diisodecyl phthalate

**Other Regulations:**

|  |        |
|--|--------|
| <b>Regulatory VOC (less water and exempt solvent):</b> | 0 g/l  |
| <b>VOC Method 310:</b>                                 | 0.00 % |

**Inventory Status:**

|  |  |
|--|--|
| Australia AICS:                          | 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. |

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|                                       |  |
|---------------------------------------|--|
| 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:                    | All components in this product are 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. |
| Canada DSL Inventory List:            | All components in this product are listed on or exempt from the Inventory.             |

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

|                             |   |
|-----------------------------|---|
| <b>Revision Date:</b>       | 09/15/2016  |
| <b>Version #:</b>           | 2.0   |
| <b>Further Information:</b> | No data available.  |
| <b>Disclaimer:</b>          | 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. |

