

Version: 2.0 Revision Date: 09/15/2016

# 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. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone: Emergency telephone number: EH&S Department 216-292-5000 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.
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- 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 an	d 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 measure	S
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/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - 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 - 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	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Carbon Black - Inhalable	TWA	3 mg/m3	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/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Iron oxide - 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)
Iron oxide - Dust as Fe	TWA	5 mg/m3	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/m3	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/m3	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/m3	Canada. British Columbia OELs. 5/13



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	<i>v</i> e 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:	1.56
Solubility(ies)	
Solubility in water:	Practically Insoluble
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:	Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).
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 e Ingestion:	Axposure 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:	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 Sensitizatio Product:	n 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. Nationa	al Toxicology Progra No carcinogenic com	m (NTP) Report on Carcinogens: ponents identified
US. OSHA	Specifically Regulate No carcinogenic com	ed Substances (29 CFR 1910.1001-1050): aponents identified
Germ Cell	Mutagenicity	
In vitro Produ		No data available.
In vivo Produ	uct:	No data available.
Reproducti Produ		No data available.
Specific Ta Produ	urget Organ Toxicity - uct:	Single Exposure No data available.
Specific Ta Produ	rget Organ Toxicity - uct:	Repeated Exposure No data available.
Aspiration Produ		No data available.
Other effe	cts:	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.
<b>Specified substance(s):</b> 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):

Chemical Identity Reportable quantity

## 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 Chemical Identity Reportable quantity

Diisodecyl phthalate Diisodecyl phthalate (mixed Is)

## SARA 311/312 Hazardous Chemical

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

<u>Chemical Identity</u> 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:

Regulatory VOC (less water and exempt solvent): VOC Method 310:	0 g/l	
	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 Substance	es:	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:	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

Revision Date:	09/15/2016
Version #:	2.0
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.