

## 1. Identification

**Product identifier** 830-1313 CAL-TINT®II BURNT UMBER

**Other means of identification**

**SAP Specification** 000000139776

**Recommended use** Aqueous colorant

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company** Chromaflo Technologies Corporation  
2600 Michigan Avenue  
Ashtabula, OH 44005-0816  
USA

**Telephone** 440-997-5137

**Telefax** 440-992-3613

**US: CHEMTREC** 800-424-9300

**EMERGENCY NUMBER**

**CANADA: CANUTEC** 613-996-6666

**EMERGENCY NUMBER**

**Product Regulatory Services** 440-536-9691

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Germ cell mutagenicity Category 1B

Carcinogenicity Category 1B

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** May cause genetic defects. May cause cancer.

**Precautionary statement**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

If exposed or concerned: Get medical advice/attention.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Supplemental information**

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

## 3. Hazardous components

**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Iron Oxide		1309-37-1	20 - 40
ethanediol; ethylene glycol		107-21-1	10 - 20
Calcium Carbonate		1317-65-3	2.5 - 10

Chemical name	Common name and synonyms	CAS number	%
Diethylene glycol		111-46-6	2.5 - 10
Manganese trioxide		1317-34-6	2.5 - 10
Carbon black, amorphous		1333-86-4	1 - 2.5
Silica, crystalline (quartz)		14808-60-7	1 - 2.5
Other components below reportable levels			20 - 40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Calcium Carbonate (CAS 1317-65-3)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
Carbon black, amorphous (CAS 1333-86-4)	PEL	3.5 mg/m <sup>3</sup>	
Iron Oxide (CAS 1309-37-1)	PEL	10 mg/m <sup>3</sup>	Fume.
Manganese trioxide (CAS 1317-34-6)	Ceiling	5 mg/m <sup>3</sup>	

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Silica, crystalline (quartz) (CAS 14808-60-7)	TWA	0.3 mg/m <sup>3</sup>	Total dust.
		0.1 mg/m <sup>3</sup>	Respirable.
		2.4 millions of particle	Respirable.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black, amorphous (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
ethanediol; ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m <sup>3</sup>	Aerosol.
Iron Oxide (CAS 1309-37-1)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
Manganese trioxide (CAS 1317-34-6)	TWA	0.1 mg/m <sup>3</sup>	Inhalable fraction.
		0.02 mg/m <sup>3</sup>	Respirable fraction.
Silica, crystalline (quartz) (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Total
Carbon black, amorphous (CAS 1333-86-4)	TWA	0.1 mg/m <sup>3</sup>	
Iron Oxide (CAS 1309-37-1)	TWA	5 mg/m <sup>3</sup>	Dust and fume.
Manganese trioxide (CAS 1317-34-6)	STEL	3 mg/m <sup>3</sup>	Fume.
		1 mg/m <sup>3</sup>	Fume.
Silica, crystalline (quartz) (CAS 14808-60-7)	TWA	0.05 mg/m <sup>3</sup>	Respirable dust.

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Form	Liquid.
Color	Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 724.17 °F (384.54 °C) estimated

**Initial boiling point and boiling range** 1050.56 °F (565.87 °C) estimated  
> 212 °F (> 100 °C)

**Flash point** 228.0 °F (108.9 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 0.02 hPa estimated

**Vapor density** Not available.

**Relative density** 1.7

### Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 687.2 °F (364 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

**Density** 38.856 lbs/gal estimated

**Flammability class** Combustible IIIB estimated

**Percent volatile** 33.27 % estimated

**Specific gravity** 4.66 estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects**

**Acute toxicity**

Product	Species	Test Results
830-1313 CAL-TINT®II BURNT UMBER (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	65081.4531 mg/kg estimated
<i>Inhalation</i>		
LC50	Mouse	16560 mg/l, 4 Hours estimated 16000 mg/l, 2 Hours estimated
	Rat	32800 mg/l, 0.5 Hours estimated
<i>Oral</i>		
LD50	Cat	12222.2227 mg/kg estimated
	Dog	39759.0352 mg/kg estimated
	Guinea pig	68.3333 g/kg estimated
	Mouse	95.4671 g/kg estimated
	Rabbit	896.6667 g/kg estimated
	Rat	48.8337 g/kg estimated
<i>Other</i>		
LD100	Rat	2400 g/kg estimated
LD50	Mouse	41.991 g/kg estimated
	Rabbit	66206.8984 mg/kg estimated
	Rat	7727.4365 mg/kg estimated

Components	Species	Test Results
Carbon black, amorphous (CAS 1333-86-4)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg
ethanediol; ethylene glycol (CAS 107-21-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	9530 mg/kg
<i>Oral</i>		
LD50	Cat	1650 mg/kg
	Dog	5500 mg/kg
	Guinea pig	8.2 g/kg
	Mouse	14.6 g/kg
	Rat	5.89 g/kg
<i>Other</i>		
LD50	Mouse	5.8 g/kg
	Rat	2800 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**

Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not available.

**Skin sensitization**

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

May cause genetic defects.

**Carcinogenicity**

May cause cancer.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black, amorphous (CAS 1333-86-4) 2B Possibly carcinogenic to humans.  
Iron Oxide (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans.  
Silica, crystalline (quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

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

Silica, crystalline (quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

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

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.  
**Specific target organ toxicity - single exposure** Not classified.  
**Specific target organ toxicity - repeated exposure** Not classified.  
**Aspiration hazard** Not available.  
**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
830-1313 CAL-TINT@II BURNT UMBER (CAS Mixture)		
Fish	LC50	Fish 6197.8296 mg/l, 96 hours estimated
Components	Species	Test Results
ethanediol; ethylene glycol (CAS 107-21-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.  
**Bioaccumulative potential** No data available.  
**Partition coefficient n-octanol / water (log Kow)**  
ethanediol; ethylene glycol -1.36  
**Mobility in soil** No data available.  
**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Local disposal regulations** Dispose in accordance with all applicable regulations.  
**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).  
**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

**DOT**  
Not regulated as dangerous goods.  
**IATA**  
Not regulated as dangerous goods.  
**IMDG**  
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

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

ethanediol; ethylene glycol (CAS 107-21-1) Listed.  
Manganese trioxide (CAS 1317-34-6) Listed.

### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

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

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
formaldehyde	50-00-0	100	500 lbs		

**SARA 311/312 Hazardous chemical** No

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
ethanediol; ethylene glycol	107-21-1	10 - 20
Manganese trioxide	1317-34-6	2.5 - 10
Zinc naphthenate-2-ethylhexanoate	12001-85-3	0.1 - 1
formaldehyde	50-00-0	0 - 0.1

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ethanediol; ethylene glycol (CAS 107-21-1)  
Manganese trioxide (CAS 1317-34-6)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. Massachusetts RTK - Substance List

Calcium Carbonate (CAS 1317-65-3)  
Carbon black, amorphous (CAS 1333-86-4)  
ethanediol; ethylene glycol (CAS 107-21-1)  
Iron Oxide (CAS 1309-37-1)  
Silica, crystalline (quartz) (CAS 14808-60-7)

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

ethanediol; ethylene glycol (CAS 107-21-1) 500 lbs  
Manganese trioxide (CAS 1317-34-6) 500 lbs

#### US. Pennsylvania RTK - Hazardous Substances

Calcium Carbonate (CAS 1317-65-3)  
Carbon black, amorphous (CAS 1333-86-4)  
ethanediol; ethylene glycol (CAS 107-21-1)  
Iron Oxide (CAS 1309-37-1)  
Silica, crystalline (quartz) (CAS 14808-60-7)

**US. Rhode Island RTK**

ethanediol; ethylene glycol (CAS 107-21-1)  
 Manganese trioxide (CAS 1317-34-6)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Carbon black, amorphous (CAS 1333-86-4)	Listed: February 21, 2003
formaldehyde (CAS 50-00-0)	Listed: January 1, 1988
Silica, crystalline (quartz) (CAS 14808-60-7)	Listed: October 1, 1988

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 05-16-2015

**Version #** 01

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