# 830-7216 CAL-TINT®II PHTHALO BLUE

2.1 / US Material no. Revision date 08/31/2011 Specification 139792 Print Date 04/06/2013 Order Number Page 1 / 12



#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### **Product information**

Trade name 830-7216 CAL-TINT®II PHTHALO BLUE

Use of the Substance / Aqueous colorant

Preparation

Chromaflo Technologies Corporation Company

> 2600 Michigan Avenue Ashtabula, OH 44005-0816

USA

Telephone 440-997-5137

Telefax 440-992-3613

**US: CHEMTREC EMERGENCY** 

**NUMBER** 

800-424-9300

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

**EMERGENCY NUMBER** 

Product Regulatory Services : 440-536-9691

### 2. HAZARDS IDENTIFICATION

### \*\*\* EMERGENCY OVERVIEW \*\*\*

Odor-Glycol odor. Form-paste Color-blue

CAL-TINT colorants may cause eye, skin and respiratory tract irritation.

May be harmful if swallowed.

### POTENTIAL HEALTH EFFECTS

### Eye contact

Severely irritating.

May cause tearing, reddening and/or swelling. May injure eye tissue if not removed promptly.

#### **Skin Contact**

Severely irritating.

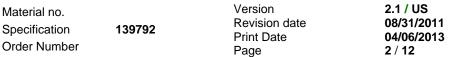
#### Inhalation

May cause respiratory tract irritation.

Overexposure to aerosols or mists containing ethylene glycol may cause lung irritation. See exposure limit (section 8).

### Ingestion

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May be harmful if swallowed.

Ingestion of ethylene glycol may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, irritability and central nervous system effects. Swallowing large volumes of ethylene glycol causes severe kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal. The human oral lethal dose is approximately 1.6 g/kg.

Ingestion of ethylene glycol can cause neurological impairment.

Repeated ingestion of ethylene glycol can cause bone marrow, liver, and sperm effects. Ingestion of excessive amounts of diethylene glycol causes abdominal discomfort or pain, nausea, vomiting, dizziness, central nervous system effects, kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal (estimated human oral lethal dose, 1.0 to 1.2 g/kg) and may cause liver effects.

#### **Chronic Health Hazard**

Ethylene glycol may aggravate an existing kidney disease. Repeated skin contact with ethylene glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis. The incidence is significantly less than 1% with the undiluted material. Repeated inhalation of ethylene glycol mist may produce signs of central nervous system involvement, particularly dizziness and drowsiness.

Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

Overexposure to crystalline silica dust causes lung effects. There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (IARC 1,OSHA).

Crystalline Silica has been assigned the A2 carcinogen designation by ACGIH, suspected human carcinogen.

Repeated inhalation of crystalline silica may cause kidney disease, auto-immune disease, and lymph node effects.

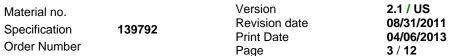
Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Information on ingredients / Hazardous components

Talc, Magnesium silicate hydrate			
CAS-No.	14807-96-6	Percent (Wt./ Wt.)	30 - 60 %
ethanediol; ethylene glycol			
	107-21-1	Percent (Wt./ Wt.)	10 - 30 %
Diethylene glycol			
CAS-No.	111-46-6	Percent (Wt./ Wt.)	5 - 10 %
Copper phthalocyanine			
CAS-No.	147-14-8	Percent (Wt./ Wt.)	5 - 10 %
NJTSR No.56705700001-5024P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	5 - 10 %
NJTSR No.56705700001-5704P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
Silica, crystalline (quartz)			
CAS-No.	• ,	Percent (Wt./ Wt.)	0.1 - 1 %

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#### Other information

This material is classified as hazardous under OSHA regulations.

#### 4. FIRST AID MEASURES

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

#### Skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

#### Eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### Ingestion

If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

#### 5. FIRE-FIGHTING MEASURES

Flash point not determined

Method: No information available.

Lower explosion limit not determined

Upper explosion limit not determined

Autoignition temperature not determined

#### Suitable extinguishing media

In case of fire, use water (flood with water), dry chemical, CO2 or "alcohol" foam.

### Specific hazards during fire fighting

Contains material that can burn in fire if contained water is evaporated by heat or fire.

#### **Further information**

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

### **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear personal protective equipment; see section 8.

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### **Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

### Methods for cleaning up

Ventilate area. Absorb spill with inert material and place in a chemical waste container.

### 7. HANDLING AND STORAGE

#### Handling

### Safe handling advice

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.

### **Storage**

# Requirements for storage areas and containers

Keep in a dry, cool place.

Keep container closed when not in use.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component occupational exposure guidelines

### ethanediol; ethylene glycol

CAS-No. 107-21-1

Control parameters 100 mg/m3

Aerosol.

40 ppm Ceiling Limit Value: (US CA OEL)

100 mg/m3 Vapor.

### · Talc, Magnesium silicate hydrate

CAS-No. 14807-96-6

2 mg/m3 Time Weighted Average (TWA):(ACGIH)

Respirable fraction.

The value is for particulate matter containing no asbestos and <1% crystalline silica.

2 mg/m3 Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA

Ceiling Limit Value: (ACGIH)

OEL)

Respirable dust.

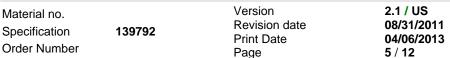
20millions of particles Time Weighted Average (TWA):(Z3)

per cubic foot of air
2.4millions of particles

Time Weighted Average (TWA):(Z3)

per cubic foot of air

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Respirable.

The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

0.1 mg/m3 Time Weighted Average (TWA):(Z3)

Respirable.

The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

0.3 mg/m3 Time Weighted Average (TWA):(Z3)

Total dust.

The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

Silica, crystalline (quartz)

CAS-No. 14808-60-7

0.05 mg/m3 Time Weighted Average (TWA):(ACGIH)

Respirable particles.

0.1 mg/m3 Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA

OEL)

Respirable dust.

0.3 mg/m3 Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA

OEL)

Total dust.

2.4millions of particles Time Weighted Average (TWA):(Z3)

per cubic foot of air

Respirable.

The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

0.1 mg/m3 Time Weighted Average (TWA):(Z3)

Respirable.

The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

0.3 mg/m3 Time Weighted Average (TWA):(Z3)

Total dust.

The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

0.025 mg/m3 Time Weighted Average (TWA):(ACGIH)

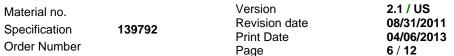
Respirable fraction.

### Other information

The exposure value for ethylene glycol is given as an aerosol.

The AIHA WEEL for diethylene glycol is 50 PPM for total vapor and aerosol and 10 mg/m3 for aerosol alone (eight hour time-weighted averages).

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The OSHA TWA and ACGIH TWA exposure values for talc are for asbestos free talc expressed as millions of particles per cubic foot (mppcf).

The exposure value for crystalline silica is for the respirable fraction.

### **Engineering measures**

Use only in well-ventilated areas.

### Personal protective equipment

# **Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

### Hand protection

Use impermeable gloves.

### Eye protection

Chemical resistant goggles must be worn.

### Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Appearance**

Form paste Color blue

Odor Glycol odor.

Safety data

pH 8.0 - 9.2

Boiling point/range > 100 °C

Flash point Method: No information available.

not determined

Autoignition temperature: not determined

Lower explosion limit not determined

Upper explosion limit not determined

Relative density 1.4

Solubility/qualitative Solubility in water: Dispersible.

Viscosity, dynamic 70 - 90 KU (25 °C)

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Solvents and Volatiles Data

% VOC (gm/l) 630

Evaporation rate Slower than butyl acetate

#### 10. STABILITY AND REACTIVITY

Conditions to avoid Not applicable.

Materials to avoid strong acids, oxidizing substances

sodium hypochlorite

#### 11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity ethanediol; ethylene glycol

107-21-1

LD50 Rat(female): 4000 mg/kg

Diethylene glycol

111-46-6

LD50 Rat: 20760 mg/kg

Copper phthalocyanine

147-14-8

LD50 Rat: > 5000 mg/kg

NJTSR No.56705700001-5024P

**Trade Secret** 

LD50 Rat: 1900 mg/kg

NJTSR No.56705700001-5704P

**Trade Secret** 

LD50 Rat: 5700 mg/kg

Component Acute dermal toxicity ethanediol; ethylene glycol

107-21-1

LD50 Rabbit: 10500 mg/kg

Diethylene glycol

111-46-6

LD50 Rabbit: 13300 mg/kg

NJTSR No.56705700001-5024P

**Trade Secret** 

LD50 Rabbit: 1110 mg/kg data sheet of the supplier

Component Repeated dose

toxicity

Talc, Magnesium silicate hydrate

14807-96-6

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Inhalation Rat(male)

Testing period: 791 d LOAEL: 0.006 mg/l

target organ/effect: Lungs

ethanediol; ethylene glycol

107-21-1

Chronic ingestion of an ingredient in this product has been shown to cause adverse effects on the peripheral nervous system of laboratory animals.

Component carcinogenicity assessment

Talc, Magnesium silicate hydrate

14807-96-6

Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

Silica, crystalline (quartz)

14808-60-7

Contains a component which is classified as an IARC Group 1 carcinogen (carcinogenic to humans).

Component teratogenicity assessment

ethanediol; ethylene glycol

107-21-1

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses. However, there is currently no available information to suggest that ethylene glycol has caused birth defects in humans.

Component General Toxicity Information

ethanediol; ethylene glycol

107-21-1

Ethylene glycol may aggravate an existing kidney disease. Repeated skin contact with ethylene glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis. The incidence is significantly less than 1% with the undiluted material. Repeated inhalation of ethylene glycol mist may produce signs of central nervous system involvement, particularly dizziness and drowsiness.

Diethylene glycol

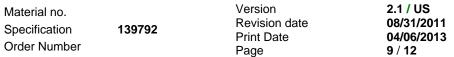
111-46-6

According to long-term animal inhalation studies, very high concentrations of diethylene glycol vapors caused central nervous system effects in mice and rats. However, an extensive review of the literature shows that no such effects have been documented in humans (Patty's Industrial Hygiene

and Toxicology, 1982, Third Revised Ed., Vol 2c, p 3838).

In a continuous breeding study of mice, continued ingestion of large amounts of diethylene glycol (6 g/kg/day) caused an adverse effect on fertility and some embryotoxic and fetotoxic effects concurrent with some maternal toxicity. The relevance of these very high doses to humans is uncertain.

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NJTSR No.56705700001-5024P

Trade Secret

An ingredient in this product has been shown to cause developmental toxicity in laboratory animals in the presence of maternal toxicity.

Silica, crystalline (quartz)

14808-60-7

Chronic inhalation of crystalline silica dust may cause kidney disease,

auto-immune disease, and lymph node effects in humans.

Crystalline silica has shown positive results in "in vitro" screening tests for

mutagenicity.

#### 12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

#### 13. DISPOSAL CONSIDERATIONS

#### **WASTE DISPOSAL**

Advice on disposal

Waste must be disposed of in accordance with federal, state, provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free-flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash. Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with water until the containers are considered generally product free.

### 14. TRANSPORT INFORMATION

#### D.O.T. Road/Rail

 Class
 9

 UN-No
 3082

 Packing group
 III

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

### Loading instructions/Remarks

IATA\_C Not dangerous according to transport regulations.

IATA\_P Not dangerous according to transport regulations.

IMDG Not dangerous according to transport regulations.

CFR\_INWTR USA: Not regulated for transport when package contains less than the

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reportable quantity listed in section 15 of the msds.

CFR RAIL USA: Not regulated for transport when package contains less than the

reportable quantity listed in section 15 of the msds.

CFR\_ROAD USA: Not regulated for transport when package contains less than the

reportable quantity listed in section 15 of the msds.

### 15. REGULATORY INFORMATION

### Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Water

CAS-No. 7732-18-5 Percent (Wt./ Wt.) 10 - 30 %

Chlorite

CAS-No. 1318-59-8 Percent (Wt./ Wt.) 1 - 5 %

# **US Federal Regulations**

#### **OSHA**

If listed below, chemical specific standards apply to the product or components:

None listed

### Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

 ethanediol; ethylene glycol CAS-No. 107-21-1

# **CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

 ethanediol; ethylene glycol CAS-No. 107-21-1 Reportable Quantity 20163 lbs

# SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

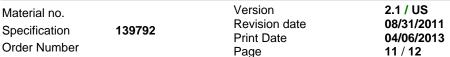
- Acute Health Hazard
- · Chronic Health Hazard

#### **SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

 ethanediol; ethylene glycol CAS-No. 107-21-1

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### **Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

### Other US Federal Regulatory Information

Note: Silica, crystalline (airborne particles of respirable size) is listed as a carcinogen under California Proposition 65. However, the physical form of this product (a free flowing paste) precludes exposure to airborne particles of respirable size.

### **State Regulations**

### California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

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

Silica, crystalline (quartz)
 CAS-No. 14808-60-7

#### **International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

Europe (EINECS/ELINCS)
 USA (TSCA)
 Canada (DSL)
 Australia (AICS)
 Listed/registered
 Listed/registered
 Listed/registered

Japan (MITI) Not listed/Not registered

Korea (TCCL) Not listed/Not registered

Philippines (PICCS)
 China
 New Zealand
 Listed/registered
 Listed/registered

### **16. OTHER INFORMATION**

### **HMIS Ratings**

Health: 2\* Flammability: 1 Physical Hazard: 0

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### **Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.