## 844-1352 CHROMA-CHEM®BURNT UMBER BU



 Material no.
 Version
 1.43 / US

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

#### **Product information**

Trade name : 844-1352 CHROMA-CHEM®BURNT UMBER BU

Use of the Substance / : Non-aqueous colorant

Preparation

Company : Chromaflo Technologies Corporation

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 \*\*\*

Form-paste Color-brown Odor-Sweet ether-like odor.

May cause eye, skin and respiratory tract irritation.

Combustible liquid and vapor.

## POTENTIAL HEALTH EFFECTS

# Eye contact

Irritating.

May injure eye tissue if not removed promptly.

May cause conjunctivitis.

#### **Skin Contact**

A moderate skin irritant based on testing of similar CHROMA-CHEM® base mixtures. Prolonged or repeated contact may cause irritation.

Prolonged skin contact with large amounts of ether acetates may cause drowsiness.

### Inhalation

Possibly irritating.

Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even death.

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### Ingestion

May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

### **Chronic Health Hazard**

High vapor concentrations (3000 ppm) of propylene glycol monomethyl ether acetate caused upper respiratory irritation and liver and kidney effects in subchronic animal testing. The relevance of these results to humans is not known.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica. 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.

Manganese dioxide dust has caused developmental effects in the absence of maternal effects. Repeated exposure to manganese dioxide may lead to neurological effects and lung 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

2-methoxy-1-meth	ylethyl acetate		
CAS-No.	108-65-6	Percent (Wt./ Wt.)	10 - 30 %
Iron oxide			
CAS-No.	1332-37-2	Percent (Wt./ Wt.)	10 - 30 %
Aluminum oxide			
CAS-No.	1344-28-1	Percent (Wt./ Wt.)	5 - 10 %
manganese dioxid	de		
CAS-No.	1313-13-9	Percent (Wt./ Wt.)	5 - 10 %
Poly(oxy-1,2-etha	nediyl),alpha-tridecyl-	-o-OH,phosphate	
CAS-No.	9046-01-9	Percent (Wt./ Wt.)	5 - 10 %
Silica, crystalline	(quartz)		
CAS-No.	14808-60-7	Percent (Wt./ Wt.)	1 - 5 %
Polyoxyethylene of	dinonyphenyl ether ph	nosphate	
CAS-No.	39464-64-7	Percent (Wt./ Wt.)	1 - 5 %

#### Other information

This material is classified as hazardous under OSHA regulations.

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#### 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

In case of contact, immediately flush eyes with plenty of water for at least 30 minutes, while holding eyelids apart.

Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye.

Obtain medical attention immediately.

### Ingestion

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

If the heart has stopped or breathing has stopped, trained personnel should begin cardiopulmonary resuscitation or artificial respiration immediately.

### 5. FIRE-FIGHTING MEASURES

Flash point 46.67 °C , 116 °F

Method: Setaflash Closed Cup

OSHA Flammability Classification Combustible Liquid

### Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

### Specific hazards during fire fighting

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

# **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.

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#### 6. ACCIDENTAL RELEASE MEASURES

#### Additional advice

Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes. streams, ponds, groundwater or soil.

### 7. HANDLING AND STORAGE

### Handling

# Safe handling advice

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the 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

#### Aluminum oxide

CAS-No. 1344-28-1

Control parameters 5 mg/m3 PEL:(OSHA Z1) Respirable fraction.

15 ma/m3

PEL:(OSHA Z1) Total dust.

10 mg/m3 Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA

OEL)

Total dust.

Time Weighted Average (TWA) 5 mg/m3

Permissible Exposure Limit (PEL):(US CA

OEL)

Respirable fraction.

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

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Respirable fraction.

• 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.

Iron oxide

CAS-No. 1332-37-2

(Z3)

Respirable fraction.

Listed.

5 mg/m3 PEL:(OSHA Z1)

Respirable fraction.

15 mg/m3 PEL:(OSHA Z1)

Total dust.

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

Respirable particles.

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

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Inhalable particles.

### manganese dioxide

CAS-No. 1313-13-9

5 mg/m3 as Mn

Ceiling Limit Value:(OSHA Z1)

0.2 mg/m3 as Mn

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA

OEL)

0.2 mg/m3 as Mn Time Weighted Average (TWA):(ACGIH)

#### Other information

The AIHA WEEL for propylene glycol monomethyl ether acetate is 50 ppm TWA.

The exposure limit for iron oxide is for dust and fume as Fe.

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

## **Engineering measures**

Use explosion-proof ventilation equipment.

### 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 brown

Odor Sweet ether-like odor.

Safety data

Boiling point/range > 143 °C

Flash point 46.67 °C

Method: Setaflash Closed Cup

Relative density 1.5

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Solubility/qualitative Solubility in water: Negligible.

Viscosity, dynamic 90 - 110 KU (25 °C)

Solvents and Volatiles Data

% VOC (gm/l) 452

Evaporation rate Slower than butyl acetate

#### 10. STABILITY AND REACTIVITY

Conditions to avoid Avoid high temperatures and sources of ignition.

Materials to avoid oxidizing substances

Hazardous decomposition products 
Exothermic reactions of aluminum oxide above 200°C with halocarbon

vapors produces toxic HCl and phosgene.

### 11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity 2-methoxy-1-methylethyl acetate

108-65-6

LD50 Rat: 8532 mg/kg

Iron oxide 1332-37-2

LD50 Rat: > 5000 mg/kg

Aluminum oxide 1344-28-1

LD50 Rat: > 10000 mg/kg

Poly(oxy-1,2-ethanediyl),alpha-tridecyl-o-OH,phosphate

9046-01-9

LD50 Rat: > 2000 mg/kg

Component Acute inhalation

LC50 (rat) > 4345 ppm, 6 hours, vapor

toxicity

related to substance: 2-methoxy-1-methylethyl acetate

Component Acute dermal toxicity 2-methoxy-1-methylethyl acetate

108-65-6

LD50 Rabbit: > 19000 mg/kg

(calculated) (literature value)

Component carcinogenicity

assessment

Silica, crystalline (quartz)

14808-60-7

Contains a component which is classified as an IARC Group 1 carcinogen

(carcinogenic to humans).

Component General Toxicity 2-methoxy-1-methylethyl acetate

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Information 108-65-6

High vapor concentrations (3000 ppm) of propylene glycol monomethyl ether acetate caused upper respiratory irritation and liver and kidney effects in subchronic animal testing. The relevance of these results to humans is not known.

manganese dioxide

1313-13-9

Repeated exposure to manganese dioxide may cause lung effects. There is conclusive evidence that inhaling high levels of manganese dioxide may lead to neurological effects in humans, such as altered gait, tremor, and psychiatric disturbances. These effects may continue to progress even after exposure to manganese dioxide ceases. Manganese dioxide dust has caused developmental toxicity in the absence of maternal effects.

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 mineral spirits until the containers are considered generally product free.

### 14. TRANSPORT INFORMATION

# Sea transport IMDG-Code

Class 3 UN-No 1263

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Packaging group III

EmS F-E. S-E

Proper technical name (Proper shipping name)

PAINT RELATED MATERIAL

### Air transport ICAO-TI/IATA-DGR

Class 3
UN-No 1263
Packaging group III
Proper technical name (Proper shipping name)

Paint related material

### Loading instructions/Remarks

IATA\_C ERG-Code 3L IATA\_P ERG-Code 3L

CFR\_INWTR In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

CFR\_RAIL In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

CFR ROAD In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

### 15. REGULATORY INFORMATION

## **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:

manganese dioxide
 CAS-No. 1313-13-9

#### **CERCLA Reportable Quantities**

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

None listed

## SARA Title III Section 311/312 Hazard Categories

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

Acute Health Hazard

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· Chronic Health Hazard

Fire 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:

Aluminum oxide

CAS-No. 1344-28-1

manganese dioxide

CAS-No. 1313-13-9

# **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

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### **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)
 Listed/registered
 Listed/registered

Australia (AICS)
 Japan (MITI)
 Korea (TCCL)
 Philippines (PICCS)
 Not listed/Not registered
 Not listed/Not registered
 Not listed/Not registered

China Listed/registered
New Zealand Listed/registered

#### **16. OTHER INFORMATION**

# **HMIS Ratings**

Health: 2' Flammability: 2 Physical Hazard: 0

### **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.