139783



Material no. Specification Order Number

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

Product information		
Trade name Use of the Substance / Preparation Company	:	830-1047 CAL-TINT®II VENETIAN RED Aqueous colorant
	:	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 EMERGENCY NUMBER	:	613-996-6666
Product Regulatory Services	:	440-536-9691

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-paste Color-red Odor-Glycol odor.

CAL-TINT colorants may cause eye, skin and respiratory tract irritation. May be harmful if swallowed.

POTENTIAL HEALTH EFFECTS

Eye contact

According to test results on similar colorant base mixtures, this CAL-TINT colorant is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

Skin Contact

Moderately irritating. Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis (rash).

Inhalation

CAL-TINT colorants may cause 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.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On Xrays 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. 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.

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

Iron oxide			
CAS-No.	1332-37-2	Percent (Wt./ Wt.)	30 - 60 %
ethanediol; ethylene	glycol		
CAS-No.	107-21-1	Percent (Wt./ Wt.)	10 - 30 %
Nonylphenoxypoly(et	hyleneoxy)ethanol, br	anched	
CAS-No.	68412-54-4	Percent (Wt./ Wt.)	5 - 10 %
Diethylene glycol			
CAS-No.	111-46-6	Percent (Wt./ Wt.)	1 - 5 %
Talc, Magnesium silic	cate hydrate		
CAS-No.	14807-96-6	Percent (Wt./ Wt.)	1 - 5 %
C.I. Pigment Black 11	l		
CAS-No.	1317-61-9	Percent (Wt./ Wt.)	1 - 5 %
		ed alkyl derivs., compo	
CAS-No.	68649-00-3	Percent (Wt./ Wt.)	1 - 5 %

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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 15 minutes or until all material has been removed. Obtain 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

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.

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.

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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 100 mg/m3 Vapor. Ceiling Limit Value:(ACGIH)

• Talc, Magnesium silicate hydrate

CAS-No. 14807-96-6 2 mg/m3Time 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 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 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)

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		sure limit is calculated	from the equation, 10/(%SiO2 of SiO2 will yield higher expo	
	0.3 mg/m Total dus		Time Weighted Aver	age (TWA): <mark>(</mark> Z3)
			from the equation, 30/(%SiO2 SiO2 will give higher exposur	
C.I. Pigmen	t Black 11			
CAS-No.	1317-61-9 5 mg/m3 Respirabl	9 le fraction.	PEL:(OSHA Z1)	
	15 mg/m3 Total dus		PEL:(OSHA Z1)	
	3 mg/m3 Respirabl	e particles.	Time Weighted Ave	age (TWA): <mark>(</mark> ACGIH
	10 mg/m3 Inhalable		Time Weighted Ave	rage (TWA): <mark>(</mark> ACGI⊢
 Iron oxide 				
CAS-No.	1332-37-2	2	(Z3)	
	Respirabl Listed.	le fraction.	()	
	5 mg/m3 Respirabl	le fraction.	PEL:(OSHA Z1)	
	15 mg/m3 Total dus		PEL:(OSHA Z1)	
	3 mg/m3 Respirabl	le particles.	Time Weighted Ave	age (TWA): <mark>(</mark> ACGIH
	10 mg/m3 Inhalable		Time Weighted Aver	age (TWA): <mark>(</mark> ACGIH

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).

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

Engineering measures

Use only in well-ventilated areas.

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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 Color Odor	paste red Glycol odor.	
Safety data		
рН	8.0 - 9.2	
Boiling point/range	> 100 °C	
Relative density	2	
Solubility/qualitative	Solubility in water: Dispersible.	
Viscosity, dynamic	85 - 100 KU (25 °C)	
Solvents and Volatiles Data	% VOC (gm/l)	537
Evaporation rate	Slower than butyl acetate	

10. STABILITY AND REACTIVITY

Conditions to avoid	Not applicable.
Materials to avoid	strong acids, oxidizing substances
	sodium hypochlorite

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11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	Iron oxide 1332-37-2 LD50 Rat: > 5000 mg/kg
	ethanediol; ethylene glycol 107-21-1 LD50 Rat(female): 4000 mg/kg
	Nonylphenoxypoly(ethyleneoxy)ethanol, branched 68412-54-4 LD50 Rat: 3000 mg/kg
	Diethylene glycol 111-46-6 LD50 Rat: 20760 mg/kg
Component Acute dermal toxicity	ethanediol; ethylene glycol 107-21-1 LD50 Rabbit: 10500 mg/kg
	Nonylphenoxypoly(ethyleneoxy)ethanol, branched 68412-54-4 LD50 Rabbit: 4400 mg/kg
	Diethylene glycol 111-46-6 LD50 Rabbit: 13300 mg/kg
Component Repeated dose toxicity	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.
	Talc, Magnesium silicate hydrate 14807-96-6 Inhalation Rat(male) Testing period: 791 d LOAEL: 0.006 mg/l target organ/effect: Lungs
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.

MATERIAL SAFETY DAT 830-1047 CAL-TINT®II VEN			Chromaflo*
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Component teratogenicity assessment	effects in rats and mice concentrations or doses	en shown to produce when given by gava s. However, there is	dose-related teratogenic lge or in drinking water at hig currently no available has caused birth defects in
Component General Toxicity Information	contact with ethylene gl sensitization with the de incidence is significantly Repeated inhalation of	gravate an existing k lycol may, in a very s evelopment of allergi y less than 1% with t ethylene glycol mist	kidney disease. Repeated sk small proportion of cases, cau c contact dermatitis. The he undiluted material. may produce signs of central zziness and drowsiness.
	of diethylene glycol vap and rats. However, an such effects have been and Toxicology, 1982, ⁻ In a continuous breedin amounts of diethylene g fertility and some embry	ors caused central n extensive review of t documented in hum Fhird Revised Ed., V g study of mice, con glycol (6 g/kg/day) ca yotoxic and fetotoxic	idies, very high concentration bervous system effects in mice the literature shows that no lans (Patty's Industrial Hygier ol 2c, p 3838). tinued ingestion of large aused an adverse effect on effects concurrent with some ery high doses to humans is

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 nonhazardous 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.



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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

Not dangerous according to transport regulations.
Not dangerous according to transport regulations.
Not dangerous according to transport regulations.
USA: Not regulated for transport when package contains less than the reportable quantity listed in section 15 of the msds.
USA: Not regulated for transport when package contains less than the reportable quantity listed in section 15 of the msds.
USA: Not regulated for transport when package contains less than the reportable quantity listed in section 15 of the msds.

15. REGULATORY INFORMATION

US Federal Regulations

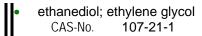
OSHA

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:



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 30956 lbs

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

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

Toxic Substances Control Act (TSCA)

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

None listed

State Regulations

California Proposition 65

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

None listed

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)
- Japan (MITI)
- Korea (TCCL)
- Philippines (PICCS)
- China
- New Zealand

Listed/registered Listed/registered Not listed/Not registered Not listed/Not 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.