

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	:	830-9907 CAL-TINT®II LAMP BLACK Aqueous colorant
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 EMERGENCY NUMBER	:	613-996-6666
Product Regulatory Services	:	440-536-9691

#### 2. HAZARDS IDENTIFICATION

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

Form-paste Color-black Odor-Glycol odor.

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

#### POTENTIAL HEALTH EFFECTS

#### Eye contact

Severely irritating. May injure eye tissue if not removed promptly.

#### **Skin Contact**

Moderately 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

May be harmful if swallowed.

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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 ration activity in male or female mice.

Some studies have linked exposure of carbon black dust to lung effects. IARC classifies carbon black as a Category 2B Carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies. However, the manufacturers of carbon black state that epidemiologic studies of workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure.

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

Carbon black, amorp	hous		
CAS-No.	1333-86-4	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.5670570	0001-5043P		
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	5 - 10 %
ethanediol; ethylene	glycol		
CAS-No.	107-21-1	Percent (Wt./ Wt.)	10 - 30 %
Diethylene glycol			
CAS-No.	111-46-6	Percent (Wt./ Wt.)	1 - 5 %
Talc, Magnesium sili	cate hydrate		
CAS-No.	14807-96-6	Percent (Wt./ Wt.)	10 - 30 %
Distillates (petroleum	n), hydrotreated ligh	t; Kerosine - unspecified	
CAS-No.	64742-47-8	Percent (Wt./ Wt.)	0.01 - 1 %
NJTSR No.5670570	0001-5704P		
CAS-No.	Trade Secret	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

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

#### 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**

Carbon black, amorphous

CAS-No. 1333-86-4 Control parameters 3.5 mg/m3 3.5 mg/m3

> 3 mg/m3 Inhalable fraction.

#### • ethanediol; ethylene glycol

CAS-No.

40 ppm 100 mg/m3 Vapor.

107-21-1 100 mg/m3

Aerosol.

Permissible Exposure Limit (PEL):(US CA OEL) Time Weighted Average (TWA):(ACGIH)

Ceiling Limit Value:(ACGIH)

Time Weighted Average (TWA)

PEL:(OSHA Z1)

Ceiling Limit Value:(US CA OEL)

#### • Talc, Magnesium silicate hydrate

CAS-No.	14807-96-6	
	2 mg/m3	Time Weighted Average (TWA):(ACGIH)
	Respirable fraction.	
	The value is for particulate matt	er containing no asbestos and <1% crystalline silica.
	2 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
	Respirable dust.	022)
	20millions of particles	Time Weighted Average (TWA):(Z3)

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	per cubic foot of air	
	2.4millions of particles per cubic foot of air Respirable.	Time Weighted Average (TWA):(Z3)
	The exposure limit is calculate	ed from the equation, 250/(%SiO2+5), using a value of es of SiO2 will yield higher exposure limits.
	0.1 mg/m3 Respirable.	Time Weighted Average (TWA):(Z3)
	The exposure limit is calculate	ed from the equation, 10/(%SiO2+2), using a value of es of SiO2 will yield higher exposure limits.
	0.3 mg/m3 Total dust.	Time Weighted Average (TWA):(Z3)
	The exposure limit is calculate	ed from the equation, 30/(%SiO2+2), using a value of % SiO2 will give higher exposure limits.

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#### 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).

#### **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	paste
Color	black
Odor	Glycol odor.

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Safety data			
рН	8.0 - 9.0		
Boiling point/range	> 100 °C		
Flash point	not determined		
Relative density	1.4		
Solubility/qualitative	Solubility in water: Di	spersible.	
Viscosity, dynamic	75 - 90 KU (25 °C)		
Solvents and Volatiles Data	% VOC (gm/l)	439	
Evaporation rate	Slower than butyl ace	etate	

# **10. STABILITY AND REACTIVITY**

Conditions to avoid	Not applicable.
Materials to avoid	strong acids, oxidizing substances
	sodium hypochlorite
Further information	Stable under normal conditions.

## **11. TOXICOLOGICAL INFORMATION**

Component Acute oral toxicity	Carbon black, amorphous 1333-86-4 LD50 Rat: > 10000 mg/kg
	NJTSR No.56705700001-5043P Trade Secret LD50 Rat: 3000 mg/kg
	ethanediol; ethylene glycol 107-21-1 LD50 Rat(female): 4000 mg/kg
	Diethylene glycol 111-46-6 LD50 Rat: 20760 mg/kg
	Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8 LD50 Rat: > 15000 mg/kg

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		NJTSR No.56705700001-570 Trade Secret LD50 Rat: 5700 mg/kg	)4P	
Component toxicity	Acute inhalation	Carbon black, amorphous 1333-86-4 LC50 Rat: 6750 mg/m3 / 4 h		
		Distillates (petroleum), hydrod 64742-47-8 LC50 Rat: > 14100 mg/m3 /	-	erosine - unspecified
Component	Acute dermal toxicity	NJTSR No.56705700001-504 Trade Secret LD50 Rabbit: 4400 mg/kg	43P	
		ethanediol; ethylene glycol 107-21-1 LD50 Rabbit: 10500 mg/kg		
		Diethylene glycol 111-46-6 LD50 Rabbit: 13300 mg/kg		
		Distillates (petroleum), hydroi 64742-47-8 LD50 Rabbit: > 2000 mg/kg	treated light; Ke	erosine - unspecified
Component toxicity	Repeated dose	ethanediol; ethylene glycol 107-21-1 Chronic ingestion of an ingre- adverse effects on the periph		duct has been shown to cause stem of laboratory animals.
		Talc, Magnesium silicate hyd 14807-96-6 Inhalation Rat(male) Testing period: 791 d LOAEL: 0.006 mg/l target organ/effect: Lungs	rate	
Component assessment	Mutagenicity	Carbon black, amorphous 1333-86-4 This product contains one or produce mutagenic effects in		
Component assessment	carcinogenicity	Carbon black, amorphous 1333-86-4 Some studies have linked ex IARC classifies carbon black carcinogen, possible human However, the manufacturers studies of workers in the carb show no significant adverse h	as a Category a carcinogen) bas of carbon black bon black indust	2B Carcinogen (known animal sed on inhalation studies. state that epidemiologic try in the U.S. and W. Europe

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	which in turn may lead NTP Toxicology and Ca some evidence of carci	o talc may cause lung talc dust may cause to to severe and perma arcinogenesis Studies nogenic activity in ma female rats. There w	g irritation. Long term talcosis, a pulmonary fibrosis nent damage to the lungs. s of Talc revealed that there is ale rats and clear evidence of as no evidence of carcinogen
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 ge or in drinking water at high currently no available as caused birth defects in
Component General Toxicity Information	contact with ethylene g 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 the ethylene glycol mist	idney disease. Repeated ski mall 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	oors caused central n extensive review of t documented in hum Third Revised Ed., Vo g study of mice, cont glycol (6 g/kg/day) ca yotoxic and fetotoxic	dies, very high concentration ervous system effects in mice he literature shows that no ans (Patty's Industrial Hygien ol 2c, p 3838). tinued ingestion of large sused 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

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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.

#### **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**

#### Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Wate	ſ			
	CAS-No.	7732-18-5	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.56705700001-5032P				
	CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %

#### **US Federal Regulations**

#### **OSHA**

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

None listed

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#### Clean Air Act Section (112)

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

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

#### **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 107-21-1 CAS-No. Reportable Quantity 27174 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

#### **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:

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

Carbon black, amorphous CAS-No. 1333-86-4

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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.

Listed/registered Listed/registered

Listed/registered

Listed/registered

Listed/registered

Listed/registered Listed/registered

Not listed/Not registered

Not listed/Not registered

Chromaflo\*

- Europe (EINECS/ELINCS)
- USA (TSCA)
- Canada (DSL)
- Australia (AICS)
- Japan (MITI)
- Korea (TCCL)
- Philippines (PICCS)
- China
- New Zealand
- **16. OTHER INFORMATION**

#### **HMIS Ratings**

Health :	2*
Flammability :	1
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.