139779



Material no. Specification Order Number

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

Product information		
Trade name Use of the Substance / Prenaration	:	830-2009 CAL-TINT®II RAW UMBER 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-brown Odor-Glycol odor.

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

POTENTIAL HEALTH EFFECTS

Eye contact

Moderately irritating. 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.

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Ingestion of ethylene glycol can cause neurological impairment.

Repeated ingestion of ethylene glycol can cause bone marrow, liver, and sperm 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.

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.

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

ethanediol; ethylene	e glycol		
CAS-No.	107-21-1	Percent (Wt./ Wt.)	10 - 30 %
Iron Oxide CAS-No.	1309-37-1	Percent (Wt./ Wt.)	10 - 30 %
Manganese trioxide CAS-No.	e 1317-34-6	Percent (Wt./ Wt.)	5 - 10 %
Talc, Magnesium si CAS-No.	ilicate hydrate 14807-96-6	Percent (Wt./ Wt.)	5 - 10 %
Umber			
CAS-No.	12713-03-0	Percent (Wt./ Wt.)	5 - 10 %
Calcium Carbonate	1		

830-2009 CAL	-TINT®II RAV	V UMBER		Cinomano
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	CAS-No.	1317-65-3	Percent (Wt./ Wt.)	1 - 5 %
Carb	on black, amorp	hous		
	CAS-No.	1333-86-4	Percent (Wt./ Wt.)	1 - 5 %
Dieth	ylene glycol			
	CAS-No.	111-46-6	Percent (Wt./ Wt.)	1 - 5 %
NJTS	SR No.5670570	0001-5023P		
	CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
NJTS	SR No.5670570	0001-5024P		
	CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
Silica	a, crystalline (qu	artz)		
	CAS-No.	14808-60-7	Percent (Wt./ Wt.)	0.1 - 1 %

Change flog

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

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

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.

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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	PEL:(OSHA Z1)
·	3.5 mg/m3	Time Weighted Average (TWA)
	-	Permissible Exposure Limit (PEL):(US CA

3 mg/m3Inhalable fraction.

ethanediol; ethylene glycol

CAS-No.

107-21-1 100 mg/m3 Aerosol.

> 40 ppm 100 mg/m3 Vapor.

OEL) Time Weighted Average (TWA):(ACGIH)

Ceiling Limit Value: (ACGIH)

Ceiling Limit Value: (US CA OEL)

Anterial no	TINT®II RAW U	MBER	C	hrómatio*
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 Talc, Mag 	nesium silicate h	ydrate		
CAS-No.	14807-90	5-6		
	2 mg/m3		Time Weighted A	verage (TWA): <mark>(</mark> ACGIH
	Respirat The valu	le fraction.	r containing no asbestos a	and <1% crystalline sili
	2 mg/m3		Time Weighted A Permissible Expo OEL <mark>)</mark>	verage (TWA) sure Limit (PEL) <mark>:(</mark> US C
	Respirat	le dust.		
	20million	s of particles	Time Weighted A	verage (TWA): <mark>(</mark> Z3)
	2.4million per cubic	ns of particles c foot of air	Time Weighted A	verage (TWA):(Z3)
	The expo 100% Si	osure limit is calculated O2. Lower percentages	rom the equation, 250/(% of SiO2 will yield higher ex	SiO2+5), using a value cposure limits.
	0.1 mg/n Respirat	n3 Ile.	Time Weighted A	verage (TWA): <mark>(Z3)</mark>
	The expo 100% Si	osure limit is calculated O2. Lower percentages	rom the equation, 10/(%S of SiO2 will yield higher e>	iO2+2), using a value cposure limits.
	0.3 mg/n Total dus	n3 st.	Time Weighted A	verage (TWA): <mark>(Z3)</mark>
	The expo 100% Si	Desure limit is calculated D2. Lower values of % S	rom the equation, 30/(%S SiO2 will give higher expos	iO2+2), using a value sure limits.
 Silica, cry 	stalline (quartz)			
CAS-No.	14808-60)-7		
	0.05 mg/ Respirat	m3 le particles.	Time Weighted A	verage (TWA) <mark>:(</mark> ACGIH
	0.1 mg/n	า3	Time Weighted A Permissible Expo OEL)	verage (TWA) sure Limit (PEL) <mark>:(</mark> US C
	0.1 mg/n Respirat	n3 Ile dust.	Time Weighted A Permissible Expo OEL <mark>)</mark>	verage (TWA) sure Limit (PEL): <mark>(</mark> US C
	0.1 mg/n Respirat 0.3 mg/n	n3 ile dust. n3	Time Weighted A Permissible Expo OEL) Time Weighted A Permissible Expo OEL)	verage (TWA) sure Limit (PEL): <mark>(</mark> US (verage (TWA) sure Limit (PEL): <mark>(</mark> US (
	0.1 mg/n Respirat 0.3 mg/n Total dus	n3 ile dust. n3 st.	Time Weighted A Permissible Expo OEL) Time Weighted A Permissible Expo OEL)	verage (TWA) sure Limit (PEL): <mark>(</mark> US (verage (TWA) sure Limit (PEL): <mark>(</mark> US (
	0.1 mg/n Respirat 0.3 mg/n Total dus 2.4million per cubio Respirat	n3 le dust. n3 st. ns of particles c foot of air le.	Time Weighted A Permissible Expo OEL) Time Weighted A Permissible Expo OEL) Time Weighted A	verage (TWA) sure Limit (PEL):(US (verage (TWA) sure Limit (PEL):(US (verage (TWA):(Z3)
	0.1 mg/n Respirat 0.3 mg/n Total dus 2.4million per cubic Respirat The expo 100% Sin	n3 ele dust. n3 st. st of particles c foot of air ele. osure limit is calculated D2. Lower percentages	Time Weighted A Permissible Expo OEL) Time Weighted A Permissible Expo OEL) Time Weighted A Time Weighted A sion the equation, 250/(%	verage (TWA) sure Limit (PEL):(US (verage (TWA) sure Limit (PEL):(US (verage (TWA):(Z3) SiO2+5), using a value (posure limits.

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830-2009 CAL	-TINT®II RAW U	MBER		Curomatio*
Material no. Specification Order Number	139779	Version Revision date Print Date Page	3.2 / US 08/31/2011 04/06/2013 6 / 13	
	Respirab The expo 100% Sid	le. osure limit is calculated D2. Lower percentages	from the equation, 10 s of SiO2 will yield high	/(%SiO2+2), using a value o her exposure limits.
	0.3 mg/m Total dus The expo 100% Sid	n3 st. osure limit is calculated O2. Lower values of %	Time Weight from the equation, 30 SiO2 will give higher e	ted Average (TWA):(Z3) /(%SiO2+2), using a value o exposure limits.
	0.025 mg Respirab	g/m3 le fraction.	Time Weight	ed Average (TWA): <mark>(</mark> ACGIH)
 Iron Oxid 	e			
CAS-No.	1309-37- 10 mg/m Fume.	1 3	PEL: <mark>(</mark> OSHA	Z1)
	5 mg/m3		Time Weight Permissible OEL)	ted Average (TWA) Exposure Limit (PEL):(US C
	Fume.		,	
	5 mg/m3 Respirab	le fraction.	Time Weight	ed Average (TWA):(ACGIH)
Mangane	se trioxide			
CAS-No.	1317-34- 5 mg/m3 0.2 mg/m	6 as Mn n3 as Mn	Ceiling Limit Time Weight Permissible	Value: <mark>(</mark> OSHA Z1) ed Average (TWA) Exposure Limit (PEL):(US C.
	0.2 mg/m	n3 as Mn	Time Weight	ed Average (TWA): <mark>(</mark> ACGIH)
Calcium	Carbonate			
CAS-No.	1317-65- 5 mg/m3 Respirab	3 le fraction.	PEL: <mark>(</mark> OSHA	Z1)
	15 mg/m Total dus	3 st.	PEL: <mark>(</mark> OSHA	Z1)
	3 mg/m3 Respirab	le particles.	Time Weight	ed Average (TWA): <mark>(</mark> ACGIH)
	10 mg/m Inhalable	3 e particles.	Time Weight	ed Average (TWA):(ACGIH)

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 brown Glycol odor.	
Safety data		
рН	8.0 - 9.0	
Boiling point/range	> 100 °C	
Flash point	not determined	
Relative density	1.6	
Solubility/qualitative	Solubility in water: Dispersible.	
Viscosity, dynamic	91 - 106 KU <mark>(</mark> 25 °C <mark>)</mark>	
Solvents and Volatiles Data	% VOC (gm/l)	390
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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Ethylene oxide and guanidinum perchlorate (incompatible with iron oxide.)

Further information Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	ethanediol; ethylene glycol 107-21-1 LD50 Rat(female): 4000 mg/kg
	Iron Oxide 1309-37-1 LD50 Rat: > 5000 mg/kg
	Carbon black, amorphous 1333-86-4 LD50 Rat: >10000 mg/kg
	Diethylene glycol 111-46-6 LD50 Rat: 20760 mg/kg
	NJTSR No.56705700001-5023P Trade Secret LD50 Rat: 1900 mg/kg
	NJTSR No.56705700001-5024P Trade Secret LD50 Rat: 1900 mg/kg
Component Acute inhalation toxicity	Carbon black, amorphous 1333-86-4 LC50 Rat: 6750 mg/m3 / 4 h
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.56705700001-5023P Trade Secret LD50 Rabbit: > 10000 mg/kg
	NJTSR No.56705700001-5024P Trade Secret LD50 Rabbit: 1110 mg/kg data sheet of the supplier

MATERIAL SAFETY DATA SHEET			Chromafle*	
830-2009 CAI	L-TINT®II RAV	/ UMBER		
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Component toxicity	Repeated dose	ethanediol; ethylene glyd 107-21-1 Chronic ingestion of an i adverse effects on the p Talc, Magnesium silicate 14807-96-6	col ngredient in this pro eripheral nervous sy e hydrate	duct has been shown to caus stem of laboratory animals.
		Inhalation Rat(male) Testing period: 791 d LOAEL: 0.006 mg/l target organ/effect: Lung	S	
Component assessment	Mutagenicity	Carbon black, amorphou 1333-86-4 This product contains or produce mutagenic effec	us ne or more ingredien cts in in vitro testing.	ts that have been shown to
Component assessment	carcinogenicity	Talc, Magnesium silicate 14807-96-6 Short term exposures to excessive exposure to ta which in turn may lead to NTP Toxicology and Ca some evidence of carcin carcinogenic activity in fe activity in male or female	e hydrate talc may cause lung alc dust may cause to severe and permain rcinogenesis Studies ogenic activity in ma emale rats. There wa	g irritation. Long term alcosis, 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
		Carbon black, amorphou 1333-86-4 Some studies have linke IARC classifies carbon b carcinogen, possible hu However, the manufactu studies of workers in the show no significant adve	ed exposure of carbo plack as a Category man carcinogen) bas prers of carbon black carbon black indust erse health effects do	on black dust to lung effects. 2B Carcinogen (known anima sed on inhalation studies. state that epidemiologic try in the U.S. and W. Europe ue to occupational exposure.
		Silica, crystalline (quartz 14808-60-7 Contains a component v (carcinogenic to humans) vhich is classified as s).	an IARC Group 1 carcinoger
Component assessment	teratogenicity	ethanediol; ethylene glyd 107-21-1 Ethylene glycol has beel effects in rats and mice concentrations or doses information to suggest th humans.	col n shown to produce when given by gava . However, there is nat ethylene glycol h	dose-related teratogenic ge or in drinking water at high currently no available as caused birth defects in
Component Information	General Toxicity	ethanediol; ethylene glyo 107-21-1 Ethylene glycol may agg contact with ethylene gly sensitization with the de	col pravate an existing k vcol may, in a very s velopment of allergio	idney disease. Repeated skir mall proportion of cases, caus c contact dermatitis. The

MATERIAL SAFETY DATA SHEET				
830-2009 CAL-TINT®II RAW UMBER			Chrómaflo*	
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		incidence is significantly Repeated inhalation of nervous system involve Diethylene glycol 111-46-6 According to long-term of diethylene glycol vap and rats. However, an such effects have been and Toxicology, 1982, T In a continuous breedin amounts of diethylene g fertility and some embry maternal toxicity. The r uncertain.	/ less than 1% with thethylene glycol mist r ment, particularly diz animal inhalation stud ors caused central ne extensive review of the documented in huma fhird Revised Ed., Vo g study of mice, cont glycol (6 g/kg/day) car votoxic and fetotoxic of elevance of these ve	he undiluted material. nay produce signs of central ziness and drowsiness. dies, very high concentrations ervous system effects in mice he literature shows that no ans (Patty's Industrial Hygiene of 2c, p 3838). inued ingestion of large used an adverse effect on effects concurrent with some ry high doses to humans is
		NJTSR No.5670570000 Trade Secret An ingredient in this pro toxicity in laboratory ani	01-5024P Induct has been showr Imals in the presence	n to cause developmental of maternal toxicity.
		Silica, crystalline (quart	Z)	

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 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 shinping name	Environmentally bazardous substance, liquid, n.o.s.
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 %
NJTS	R No.56705700	001-5068P		
	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

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
- Manganese trioxide
- 1317-34-6

CERCLA Reportable Quantities

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



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 ethanediol; ethylene glycol CAS-No. 107-21-1 Reportable Quantity 32637 lbs

SARA Title III Section 311/312 Hazard Categories

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

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- 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
- Manganese trioxide
 CAS-No. 1317-34-6

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.

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

Listed/registered Listed/registered

Listed/registered

Listed/registered

Listed/registered

Listed/registered

Listed/registered Listed/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.