896-2601 CHROMA-CHEM® ORGANIC YELLOW GREEN SHADE AOY

Specification: 000000139316 Revision Date: Version Number: 01



1. Identification

Product identifier 896-2601 CHROMA-CHEM® ORGANIC YELLOW GREEN SHADE **AOY**

Other means of identification

SAP Specification 000000139316

Recommended use Aqueous industrial colorant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Chromaflo Technologies Corporation Company

2600 Michigan Avenue

Ashtabula, OH, USA 44005-0816

Canadian facility Chromaflo Technologies Canada

235 Orenda Road

Brampton, Ontario, Canada L6T-1E6

US telephone 440-997-5137 Canadian telephone 905-451-3810

NA: EMERGENCY # (3E) 866-519-4752 GLOBAL: EMERG. # (3E) (+1) 760-476-3962

3E CONTRACT # 12154 334294 **3E ACCESS CODE**

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

EMERGENCY NUMBER

Product Regulatory

Services

ehs americas@chromaflo.com

Supplier Not available.

2. Hazard(s) identification

Not classified. **Physical hazards**

Health hazards Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 2A Reproductive toxicity (the unborn child) Category 2 Specific target organ toxicity, repeated Category 1

exposure

Label elements



Signal word Danger

Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. **Hazard statement**

Causes damage to organs through prolonged or repeated exposure.

Material name: 896-2601 CHROMA-CHEM® ORGANIC YELLOW GREEN SHADE AOY SDS CANADA 1/8 000000139316 Version #: 01 Issue date: 04-11-2017



Distributed by:

2 Lansing Square

Toronto, Ont. M2J 4P8 416-496-0128

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face

protection.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response

> minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it

before reuse.

Store locked up. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal**

Other hazards None known.

Supplemental information If product is in liquid or paste form, hazards related to dust are not considered significant. But

product may contain substances that could be potential hazards if caused to become airborne

due to abrasive processes.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Diethylene Glycol Monomethyl Ether		111-77-3	2.5 - 10
2-dimethylaminoethanol; N,N-dimethylethanolamine		108-01-0	1 - 2.5
Ethylene Glycol Monobutyl Ether		111-76-2	1 - 2.5
Titanium dioxide		13463-67-7	1 - 2.5
Other components below reportable le	evels		80 - 90

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Suitable extinguishing media

5. Fire-fighting measures

Unsuitable extinguishing media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted. General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

Components

US.	ACGIH	Threshold	Limit Values
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Components	туре	Value	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sch	nedule 1, Table 2)	
Components	Туре	Value	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	97 mg/m3	
,		20 ppm	
Titanium dioxide (CAS	TWA	10 mg/m3	

Type

Components	Type	Value	Form
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Total dust.
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
Components	Type	Value	

Components	туре	value
Ethylene Glycol Monobutyl	TWA	20 ppm
Ether (CAS 111-76-2)		
Titanium dioxide (CAS	TWA	10 mg/m3
13463-67-7)		-

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Value					
2-dimethylaminoethanol;	STEL	22 mg/m3			
N,N-dimethylethanolamine (CAS 108-01-0)		3			

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Туре		Va	lue	
		6 p	pm	
TWA		11	mg/m3	
		3 p	pm	
TWA		20	ppm	
TWA		10	mg/m3	
	•	•		•
туре		Va	iue	Form
TWA		97	mg/m3	
		20	ppm	
TWA		10	mg/m3	Total dust.
e Indices				
Value	Determinant	Specimen	Sampling ²	Time
200 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*	
•	TWA TWA TWA nistry of Labor - Regr Type TWA TWA TWA	Type TWA TWA Pelndices Value Determinant	TWA 11 3 p TWA 20 TWA 10 nistry of Labor - Regulation Respecting the Quality of Type Val TWA 97 TWA 10 TWA 10 TWA 97 TWA 10	TWA 11 mg/m3 3 ppm TWA 20 ppm TWA 10 mg/m3 nistry of Labor - Regulation Respecting the Quality of the Work Entrype Value TWA 97 mg/m3 TWA 10 mg/m3 TWA 97 mg/m3 20 ppm TWA 10 mg/m3

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to vapor/mist at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Color Yellow green Characteristic. Odor Not available. Odor threshold Not available. Melting point/freezing point Not available. Initial boiling point and boiling > 212 °F (> 100 °C) range

> 205.0 °F (> 96.1 °C) Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.
Vapor density Not available.

Relative density 1.2

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

eactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

AOY

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

Diethylene Glycol Monomethyl Ether (CAS 111-77-3)

Acute Dermal

LD50 Rabbit 6540 mg/kg

Oral

LD50 Rat 5500 mg/kg

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

<u>Acute</u>

Dermal

LD50 Rabbit 400 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Rat	486 ppm, 4 Hours
Oral		
LD50	Rat	560 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eve irritation.

irritation

Respiratory or skin sensitization Canada - Alberta OELs: Irritant

> Ethylene Glycol Monobutyl Ether (CAS 111-76-2) Irritant Titanium dioxide (CAS 13463-67-7) Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Risk of cancer cannot be excluded with prolonged exposure. Carcinogenicity

ACGIH Carcinogens

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) Confirmed animal carcinogen with unknown relevance to humans.

Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Causes damage to organs through prolonged or repeated exposure. May be harmful if absorbed

through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged exposure may cause chronic effects.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

AOY

Product Species **Test Results** 896-2601 CHROMA-CHEM® ORGANIC YELLOW GREEN SHADE **AOY** Aquatic Crustacea EC50 Daphnia 67750.6797 mg/l, 48 hours estimated LC50 26639.6992 mg/l, 96 hours estimated Fish Fish Components **Species Test Results**

Diethylene Glycol Monomethyl Ether (CAS 111-77-3)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 7500 mg/l, 96 hours Components Species Test Results

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylene Glycol Monobutyl Ether 0.83

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

^{*} Estimates for product may be based on additional component data not shown.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical	Yes

Substances (EINECS)

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)YesKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes
Taiwan Toxic Chemicals Substances Control Act No

16. Other information

Issue date 04-11-2017

Version # 01

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disclaims any liability incurred from the use or reliance upon the same. 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. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for

obtaining any required licenses.

Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Regulatory Information: United States

Material name: 896-2601 CHROMA-CHEM® ORGANIC YELLOW GREEN SHADE 000000139316 Version #: 01 Issue date: 04-11-2017

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).