

## 1. Identification

**Product identifier** 824-9969 CHROMA-CHEM® RAVEN BLACK

**Other means of identification**

**SAP Specification** 000000139672

**Recommended use** Non-aqueous colorant

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company** Chromaflo Technologies Corporation  
2600 Michigan Avenue  
Ashtabula, OH 44005-0816  
USA

**Telephone** 440-997-5137

**Telefax** 440-992-3613

**NA: EMERGENCY NUMBER** 866-519-4752

**GLOBAL: EMERGENCY NUMBER** (+1) 760-476-3962

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

**EMERGENCY NUMBER**

**Product Regulatory Services** ehs\_americas@chromaflo.com

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 3

**Health hazards** Sensitization, skin Category 1  
Germ cell mutagenicity Category 1B  
Carcinogenicity Category 1B  
Specific target organ toxicity, repeated exposure Category 1

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.

<b>Storage</b>	Store in a well-ventilated place. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Carbon black, amorphous		1333-86-4	20 - 40
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine		64742-88-7	20 - 40
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha		64741-65-7	1 - 2.5
Stoddard solvent; Low boiling point naphtha - unspecified		8052-41-3	1 - 2.5
Other components below reportable levels			20 - 40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Diarrhea. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Coughing. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Flammable liquid and vapor.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Ventilate closed spaces before entering them. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Avoid discharge into drains, water courses or onto the ground.

### Environmental precautions

## 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 handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. 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. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Carbon black, amorphous (CAS 1333-86-4)	PEL	3.5 mg/m3
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)	PEL	400 mg/m3
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)	PEL	100 ppm 2900 mg/m3
		500 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black, amorphous (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)	TWA	100 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Carbon black, amorphous (CAS 1333-86-4)	TWA	0.1 mg/m3
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)	TWA	400 mg/m3
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)	TWA	100 ppm 100 mg/m3
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)	Ceiling	1800 mg/m3
	TWA	350 mg/m3

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****US ACGIH Threshold Limit Values: Skin designation**

Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7) Can be absorbed through the skin.

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. 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.

**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. Suitable gloves can be recommended by the glove supplier.

**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** When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Color** Black.

**Odor** Petroleum distillate odor.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

<b>Initial boiling point and boiling range</b>	> 300.2 °F (> 149 °C)
<b>Flash point</b>	101.0 °F (38.3 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.1
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause damage to organs through prolonged or repeated exposure by inhalation. Prolonged inhalation may be harmful.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Diarrhea. Headache. Nausea, vomiting. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

<b>Acute toxicity</b>	May cause an allergic skin reaction.
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Product	Species	Test Results
824-9969 CHROMA-CHEM® RAVEN BLACK		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	50226 mg/kg estimated
<b>Inhalation</b>		
LC50	Mouse	87940 ppm, 7 Hours estimated
	Rat	56533 ppm, 4 Hours estimated
		28535 mg/l, 4 Hours estimated
<b>Oral</b>		
LD50	Guinea pig	151 g/kg estimated

Product	Species	Test Results
	Mouse	151 g/kg estimated
	Rabbit	40 g/kg estimated
	Rat	18592 mg/kg estimated
		11726 ml/kg estimated

Components	Species	Test Results
Carbon black, amorphous (CAS 1333-86-4)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 8000 mg/kg
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	61 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 25 ml/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	May cause genetic defects.
<b>Carcinogenicity</b>	May cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black, amorphous (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Product	Species		Test Results
824-9969 CHROMA-CHEM® RAVEN BLACK			
Aquatic			
Crustacea	EC50	Daphnia	1683.6323 mg/l, 48 hours estimated
Fish	LC50	Fish	3870.4365 mg/l, 96 hours estimated
Components	Species		Test Results
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours
			8.8 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

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

#### Bioaccumulative potential

##### Partition coefficient n-octanol / water (log Kow)

Stoddard solvent; Low boiling point naphtha - unspecified 3.16 - 7.15

**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 instructions** Collect 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 code** The 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

#### DOT

**UN number** UN1263  
**UN proper shipping name** Paint related material  
**Transport hazard class(es)**  
    **Class** 3  
    **Subsidiary risk** -  
    **Label(s)** 3  
**Packing group** III  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** B1, B52, IB3, T2, TP1, TP29  
**Packaging exceptions** 150  
**Packaging non bulk** 173  
**Packaging bulk** 242

#### DOT BULK

#### BULK

**UN number** UN1263  
**UN proper shipping name** Paint related material  
**Transport hazard class(es)**  
    **Class** 3  
    **Label(s)** 3  
**Packing group** III  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** B1, B52, IB3, T2, TP1, TP29  
**Packaging exceptions** 150  
**Packaging non bulk** 173  
**Packaging bulk** 242

#### IATA

**UN number** UN1263  
**UN proper shipping name** Paint related material

**Transport hazard class(es)**

**Class** 3  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** No.  
**ERG Code** 3L

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed.  
**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN1263  
**UN proper shipping name** PAINT RELATED MATERIAL

**Transport hazard class(es)**

**Class** 3  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** No.

**EmS** F-E, S-E

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT; DOT Bulk packaging type**



**IATA; IMDG**



## 15. Regulatory information

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.



## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### US - New Jersey RTK - Substances: Listed substance

Carbon black, amorphous (CAS 1333-86-4)  
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)  
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)  
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Carbon black, amorphous (CAS 1333-86-4)  
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)  
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)  
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)

### US. Massachusetts RTK - Substance List

Carbon black, amorphous (CAS 1333-86-4)  
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)  
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)  
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)

### US. New Jersey Worker and Community Right-to-Know Act

Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)

### US. Pennsylvania RTK - Hazardous Substances

Carbon black, amorphous (CAS 1333-86-4)  
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)  
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)  
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

Carbon black, amorphous (CAS 1333-86-4)  
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (CAS 64741-65-7)  
Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)  
Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)

### US. Rhode Island RTK

Not regulated.

### US. California Proposition 65

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

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black, amorphous (CAS 1333-86-4) Listed: February 21, 2003

**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)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Taiwan	Taiwan Toxic Chemicals Substances Control Act	No

\*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).

**16. Other information, including date of preparation or last revision**

**Issue date** 05-05-2015

**Revision date** 12-11-2015

**Version #** 03

**Disclaimer**

The information contained herein is based on data believed to be reliable and the manufacturer 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  
Hazards Identification: US Hazard Categories  
Exposure controls/personal protection: Appropriate engineering controls  
Physical & Chemical Properties: Multiple Properties  
Physical and chemical properties: Odor  
Regulatory Information: Canada