AZER SCIENTIFIC

SDS Safety Data Sheet – Gram Decolorizer

03/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Gram Decolorizer
SYNONYMS: None
PRODUCT CODES: ES800,ES801,ES805,ES811

MANUFACTURER: Azer Scientific, Inc.
ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300
SUPPORT: 610-524-5810
FAX: 610-901-3046

PRODUCT USE: Laboratory Reagent
PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Flammable liquids (Category 2), Skin irritation (Category 2), Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

Signal word: DANGER!

Hazard Phrases	
H226	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335+H336	May cause respiratory irritation, and drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT
Ethanol	64-17-5	<72
Methanol	67-56-1	<4
Acetone	67-64-1	25

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. Run-off to sewer may create fire or explosion hazard.

FLASH POINT: 12.2°C (54°F) Closed cup

AUTOIGNITION TEMPERATURE: Not available

NFPA HAZARD CLASSIFICATION
HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: Use dry chemical, CO2, water spray (fog) or foam.

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SPECIAL PROTECTIVE QUIPMENT FOR FIRE-FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

SECTION 5 NOTES: Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal

contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 6 NOTES:
Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

SECTION 7: HANDLING AND SOTRAGE

HANDLING: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE GUIDELINES:

Component	Source	Type	Value	Note
Methanol	ACGIH TLV (US 3/2012)	TWA	200 ppm 8 hour(s)	Absorbed through skin
	ACGIH TLV (US 3/2012)	TWA	262 mg/m^3 8 hour(s)	Absorbed through skin
	ACGIH TLV (US 3/2012)	STEL	250 ppm 15 minute(s)	Absorbed through skin
	ACGIH TLV (US 3/2012)	STEL	328 mg/m^3 15 minute(s)	Absorbed through skin
	OSHA PEL (US 3/1989)	TWA	200 ppm 8 hour(s)	Absorbed through skin
	OSHA PEL (US 3/1989)	TWA	260 mg/m^3 8 hour(s)	Absorbed through skin
	OSHA PEL (US 3/1989)	STEL	250 ppm 15 minute(s)	Absorbed through skin
	OSHA PEL (US 3/1989)	STEL	325 mg/m^3 15 minute(s)	Absorbed through skin

	NIOSH REL (US 1/2013)	TWA	200 ppm 10 hour(s)	Absorbed through skin
	NIOSH REL (US 1/2013)	TWA	260 mg/m^3 10 hour(s)	Absorbed through skin
	NIOSH REL (US 1/2013)	STEL	250 ppm 15 minute(s)	Absorbed through skin
	NIOSH REL (US 1/2013)	STEL	325 mg/m^3 15 minute(s)	Absorbed through skin
	OSHA PEL (US 6/2010)	TWA	200 ppm 8 hour(s)	Absorbed through skin
	OSHA PEL (US 6/2010)	TWA	260 mg/m^3 hour(s)	Absorbed through skin

Component	Source	Type	Value	Note
Ethanol	ACGIH TLV (US 3/2012)	STEL	1000 ppm 15 minute(s)	
	OSHA PEL (US 3/1989)	TWA	1000 ppm 8 hour(s)	
	OSHA PEL (US 3/1989)	TWA	1900 mg/m^3 8 hour(s)	
	NIOSH REL (US 1/2013)	TWA	1000 ppm 10 hour(s)	
	NIOSH REL (US 1/2013)	TWA	1900 mg/m^3 10 hour(s)	
	OSHA PEL (US 6/2010)	TWA	1000 ppm 8 hour(s)	
	OSHA PEL (US 6/2010)	TWA	1900 mg/m^3 8 hour(s)	

Component	Source	Type	Value	Note
Acetone	ACGIH (US 1996)	TWA	1188 mg/m^3 8 hour(s)	
	ACGIH (US 1996)	STEL	1782 mg/m^{3}15 minute(s)	
	OSHA (US 1989)	TWA	1800 mg/m^3 8 hour(s)	
	OSHA (US 1989)	STEL	2400 mg/m^3 15 minute(s)	
	ACGIH TLV (US 3/2012)	TWA	500 ppm 8 hour(s)	
	ACGIH TLV (US 3/2012)	TWA	1188 mg/m^3 8 hour(s)	
	ACGIH TLV (US 3/2012)	STEL	750 ppm 15 minute(s)	
	ACGIH TLV (US 3/2012)	STEL	1782 mg/m^3 15 minute(s)	
	OSHA PEL (US 3/1989)	TWA	750 ppm 8 hour(s)	
	OSHA PEL (US 3/1989)	TWA	1800 mg/m^3 hour(s)	
	OSHA PEL (US 3/1989)	STEL	1000 ppm 15 minute(s)	
	OSHA PEL (US 3/1989)	STEL	2400 mg/m^3 15 minute(s)	
	NIOSH REL (US 1/2013)	TWA	250 ppm 10 hour(s)	
	NIOSH REL (US 1/2013)	TWA	590 mg/m^3 10 hour(s)	
	OSHA PEL (US 6/2010)	TWA	1000 ppm 8 hour(s)	
	OSHA PEL (US 6/2010)	TWA	2400 mg/m^3 8 hour(s)	

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear
ODOR: Characterisitic – alcohol like
PHYSICAL STATE: Liquid
pH AS SUPPLIED: Not Available
BOILING POINT: Not Available
MELTING POINT: Not Available
FREEZING POINT: Not Available
VAPOR PRESSURE (mmHg): Not Available
VAPOR DENSITY (AIR = 1): Not Available
EVAPORATION RATE: Not Available
SOLUBILITY IN WATER: Soluble in water
MOLECULAR WEIGHT: Mixture
VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

CONDITIONS TO AVOID (STABILITY): Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Highly reactive or incompatible with the following materials with oxidizing materials. Reactive or incompatible with the following materials: metals and acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50
no data available
Inhalation LC50
no data available
Dermal LD50
no data available
Other information on acute toxicity
no data available
Skin corrosion/irritation
no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation Toxic if inhaled. Causes respiratory tract irritation.
Ingestion Toxic if swallowed.
Skin Toxic if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTES OF ENTRY: Skin/eye contact, inhalation, and ingestion.

ACUTE HEALTH HAZARDS: See above, potential health effects.

TARGET ORGANS: Liver, Kidney, Nerves, Heart

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
None expected
Persistence and degradability

no data available
Bioaccumulative potential
Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME: Flammable Liquid**,** N.O.S. (Ethanol, Acetone)
HAZARD CLASS: 3
ID NUMBER: UN1993
PACKING GROUP: II
LABEL STATEMENT: Flammable liquid
ENVIRONMENTAL HAZARDS: No

AIR TRANSPORTATION
PROPER SHIPPING NAME: Flammable Liquid**,** N.O.S. (Ethanol, Acetone)
HAZARD CLASS: 3 (6.1)
ID NUMBER: UN1993
PACKING GROUP: II
LABEL STATEMENTS: Flammable liquid

IMDG
PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (Ethanol, Acetone)
HAZARD CLASS:3
ID NUMBER: UN1993
PACKING GROUP: II EMS-No: F-E, S-E
MARINE POLLUTANT: No

OTHER AGENCIES:
Canadian TDG:
UN No: 1993 Class 3 (6.1)
Packing Group II
Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Ethanol, Acetone)

EU ADR/RID: Not regulated / **Environmental Hazards:** No
IATA/ICAO: Not regulated / **Environmental Hazards:** No

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

United States
HCS Classification:
Flammable liquid
Toxic material
Irritating material
Target organ effects

U.S. Federal regulations:

United States inventory (TSCA 8a) IUR: Partial exemption
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Acetone, Ethyl Alcohol, Methanol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Acetone: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Methanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
Ethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
SARA 313

	Product name	CAS number	Concentration
Form R - Reporting Requirements:	Methanol	67-56-1	99 - 100
Supplier notification:	Methanol	67-56-1	99 - 100

Clean Water Act (CWA) 307:
Clean Water Act (CWA) 311:
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I Chemicals (Precursor Chemicals):	Not listed
DEA List II Chemicals (Essential Chemicals):	Listed
Connecticut Carcinogen Reporting:	None of the components are listed.
Connecticut Hazardous Material Survey:	None of the components are listed.
Florida substances:	None of the components are listed.
Illinois Chemical Safety Act:	None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act:	None of the components are listed.
Louisiana Spill:	None of the components are listed.
Louisiana Reporting:	None of the components are listed.
Massachusetts Spill:	None of the components are listed.
Massachusetts Substances:	The following components are listed: Ethyl Alcohol, Methanol, Acetone
Minnesota Hazardous Substances:	None of the components are listed.
Michigan Critical Material:	None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act:	None of the components are listed.
New Jersey Spill:	None of the components are listed.
New Jersey Hazardous Substances:	The following components are listed: Ethyl Alcohol, Methanol, Acetone
New York Toxic Chemical Release Reporting:	None of the components are listed.
New York Acutely Hazardous Substances:	The following components are listed: Methanol, Acetone
Pennsylvania RTK Hazardous Substances:	The following components are listed: Ethyl Alcohol, Methanol, Acetone
Rhode Island Hazardous Substances:	None of the components are listed.

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Methanol	No	Yes	No	No

CANADA
WHMIS (Canada): Class B-2: Flammable liquid
Class D-2B: Material causing other toxic effects (Toxic).
Canadian lists: **CEPA Toxic substances**: the following componenets are listed:
Volatile Organic compounds
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Ethanol, Methanol
Volatile Organic compounds

Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)

DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

PREPARATION INFORMATION: Prepared 3/16/2015 REV1

AZER SCIENTIFIC

SDS Safety Data Sheet – Gram Safranin

03/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Safranin
SYNONYMS: Gram Safranin
PRODUCT CODES: ES800 & ES801 (Kit component), ES806, ES812

MANUFACTURER: Azer Scientific, Inc.
ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300
SUPPORT: 610-524-5810
FAX: 610-901-3046

PRODUCT USE: Laboratory reagent - Stain
PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Irritant

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Hazard Phrases	
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H350	Suspected of causing cancer.
H370	Causes damage to organs.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases	
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P311	If exposed: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	**CAS NO.**	**% WT**
Ethanol	64-17-5	<18%
Isopropyl Alcohol	67-63-0	<1%
Safranin O	477-73-6	<1%
Water	7732-18-5	<82%

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid

FLASH POINT: Not available

AUTOIGNITION TEMPERATURE: Not Available

NFPA HAZARD CLASSIFICATION
HEALTH: 1 **FLAMMABILITY: 1** **REACTIVITY: 0**
OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: 1 **FLAMMABILITY: 1** **REACTIVITY: 0**
PROTECTION:

EXTINGUISHING MEDIA: Use dry chemical, CO2, water spray (fog) or foam.

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide, carbon dioxide

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible,absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling)equipment. Use non-sparking tools. Take precautionary measures against electrostaticdischarges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE GUIDELINES:

Ingredient	**Exposure limits**
Ethanol	**ACGIH TLV (United States, 3/2012).** STEL: 1000 ppm 15 minute(s) **OSHA PEL (United States, 3/1989).** TWA: 1000 ppm 8 hour(s) TWA: 1900 mg/m^3 8 hour(s) **NIOSH REL (United States, 1/2013)** TWA: 1000 ppm 10 hour(s) TWA: 1900 mg/m^3 10 hour(s) **OSHA PEL (United States, 6/2010)** TWA: 1000 ppm 8 hour(s)

TWA: 1900 mg/m^3 8 hour(s)

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Red

ODOR: characteristic, alcohol like

PHYSICAL STATE: liquid

pH AS SUPPLIED: 6.3

BOILING POINT: Not available

MELTING POINT: N/A

FREEZING POINT: Not Available

VAPOR PRESSURE (mmHg): Not available

VAPOR DENSITY (AIR = 1): Not available

EVAPORATION RATE: <11%

SOLUBILITY IN WATER: Soluble in water

MOLECULAR WEIGHT: Mixture

VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

CONDITIONS TO AVOID (STABILITY): Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Highly reactive or incompatible with the following materials: oxidizing materials and metals. Reactive or incompatible with the following materials: reducing materials, acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY
Oral LD50

no data available
Inhalation LC50
no data available
Dermal LD50
no data available
Other information on acute toxicity
no data available
Skin corrosion/irritation
no data available
Serious eye damage/eye irritation
Eyes: no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
Chronic effects on humans, damage to gastro/respiratory tract, skin, central nervous system, and eyes.
Aspiration hazard
no data available

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

ROUTES OF ENTRY: Skin/eye contact, inhalation, and ingestion.

POTENTIAL HEALTH EFFECTS

EYES: Hazardous in case of eye contact (irritant).

SKIN: Toxic if absorbed through skin. Causes skin irritation.

INGESTION: Hazardous if swallowed.

INHALATION: Hazardous in case of inhalation (lung irritant and sensitizer).

ACUTE HEALTH HAZARDS: See above, potential health effects.

TARGET ORGANS: Nerves, Heart, Eyes, Kidney, Central nervous system.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY
No data available
PERSISTANCE AND DEGRADABILITY
No data available
BIOACCUMULATIVE POTENTIAL
No data available
MOBILITY IN SOIL
No data available
PBT AND vPvB ASSESSMENT
No data available
OTHER ADVERSE EFFECTS
No data available

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:
ENVIRONMENTAL HAZARDS: No

AIR TRANSPORTATION: Not Regulated
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:
Canadian TDG: Not regulated / **Environmental Hazards:** No
EU ADR/RID: Not regulated / **Environmental Hazards:** No
IATA/ICAO: Not regulated / **Environmental Hazards:** No

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

United States
HCS Classification: Flammable liquid, Highly toxic material, Irritating material, Target organ effects

U.S. Federal regulations:
United States inventory (TSCA 8b): This product is listed on the TSCA Inventory.
TSCA 8(d) H and S data reporting:
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals:
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
SARA 313 Components that require reporting: Ethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard.
Clean Water Act (CWA) 307: Not listed
Clean Water Act (CWA) 311: Not listed
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
DEA List I & II Chemicals
(Precursor Chemicals): Not listed

Massachusetts Spill:	None of the components are listed.
Massachusetts Substances:	The following components are listed: Ethyl Alcohol
Minnesota Hazardous Substances:	None of the components are listed: Ethyl Alcohol
Michigan Critical Material:	None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act:	None of the components are listed.
New Jersey Spill:	None of the components are listed.
New Jersey Hazardous Substances:	The following components are listed: Ethyl Alcohol
New York Toxic Chemical Release Reporting:	None of the components are listed.
New York Acutely Hazardous Substances:	None of the components are listed

Pennsylvania RTK Hazardous Substances: The following components are listed: Ethyl Alcohol
Rhode Island Hazardous Substances: None of the components are listed.
California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level

CANADA
WHMIS (Canada): Class B-2: Flammable liquid
Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists:
CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Ethyl Alcohol
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL: All components are listed or exempted.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations
International lists:
Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): Not determined.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)

DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

PREPARATION INFORMATION: Prepared 03/2015 REV1

AZER SCIENTIFIC

SDS Safety Data Sheet – Crystal Violet Solution

02/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crystal Violet Solution
SYNONYMS: None
PRODUCT CODES: ES800, ES801, ES802, ES803, ES808, ES865

MANUFACTURER: Azer Scientific, Inc.
ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300
SUPPORT: 610-524-5810
FAX: 610-901-3046

PRODUCT USE: Laboratory Reagent
PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Warning!

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Hazard Phrases	
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases	
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+P311	If exposed: Call a POISON CENTER or doctor/ physician.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	**CAS NO.**	**% WT**
Isopropyl Alcohol	67-63-0	<1
Ethanol	64-17-5	<11

Crystal Violet	17372-87-1	<1
Phenol	108-95-2	<0.5
Water	7732-18-5	<90

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: in case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

FLASH POINT: Not Available

AUTOIGNITION TEMPERATURE: Not Available

NFPA HAZARD CLASSIFICATION
HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: Use dry chemical, CO2, water spray (fog) or foam.

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide, carbon dioxide

SECTION 5 NOTES: Development of hazardous combustion gases or vapors possible in the event of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Recommended: lab coat

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE GUIDELINES:

Ingredient	**Exposure limits**
Ethanol	**ACGIH TLV (United States, 3/2012).** STEL: 1000 ppm 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 1900 mg/m³ 8 hour(s). TWA: 1000 ppm 8 hour(s). **NIOSH REL (United States, 1/2013).** TWA: 1000 ppm 10 hour(s). TWA: 1900 mg/m³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1000 ppm 8 hour(s). TWA: 1900 mg/m³ 8 hour(s).

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Violet/Purple

ODOR: Characterstic, alcohol-like.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 3.5

BOILING POINT: Not Available

MELTING POINT: Not Available

FREEZING POINT: Not Available

VAPOR PRESSURE (mmHg): Not Available

VAPOR DENSITY (AIR = 1): Not Available

EVAPORATION RATE: <11%

SOLUBILITY IN WATER: Soluble in water

MOLECULAR WEIGHT: Mixture

VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

CONDITIONS TO AVOID (STABILITY): Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Highly reactive or incompatible with the following materials: oxidizing materials and metals. Reactive or incompatible with the following materials:reducing materials, acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50
no data available
Inhalation LC50
no data available
Dermal LD50
no data available
Other information on acute toxicity
no data available
Skin corrosion/irritation
no data available
Serious eye damage/eye irritation
Eyes: no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation Toxic if inhaled. Causes respiratory tract irritation.
Ingestion Toxic if swallowed.
Skin Toxic if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

ROUTES OF ENTRY: Skin/eye contact, inhalation, and ingestion.

ACUTE HEALTH HAZARDS: See above, potential health effects.

TARGET ORGANS: Nerves., Liver, Heart, Eyes, Kidney, Central nervous system

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up- follow all provincial, local, state, and federal regulations.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: NOT REGULATED
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:
ENVIRONMENTAL HAZARDS: No

AIR TRANSPORTATION: NOT REGULATED
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:
Canadian TDG: Not regulated / **Environmental Hazards:** No
EU ADR/RID: Not regulated / **Environmental Hazards:** No
IATA/ICAO: Not regulated / **Environmental Hazards:** No

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

United States
HCS Classification: Flammable liquid, Highly toxic material, Irritating material, Target organ effects

U.S. Federal regulations:

United States inventory (TSCA 8b):
TSCA 8(d) H and S data reporting: Phenol: 1987
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Ethyl Alcohol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Ethyl Alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: Phenol
Clean Water Act (CWA) 311: Phenol
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I & II Chemicals
(Precursor Chemicals): Not listed

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: The following components are listed: Ethyl Alcohol
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: Ethyl Alcohol
Minnesota Hazardous Substances: None of the components are listed.
Michigan Critical Material: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New Jersey Spill: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: Ethyl Alcohol
New York Toxic Chemical Release Reporting: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed
Pennsylvania RTK Hazardous Substances: The following components are listed: Ethyl Alcohol
Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level

CANADA
WHMIS (Canada): Class B-2: Flammable liquid
Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class D-2B: Material causing other toxic effects (Toxic).
Canadian lists: **CEPA Toxic substances**: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Ethyl Alcohol
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL: All components are listed or exempted.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

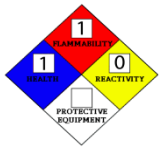
International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): Not determined.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)



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PREPARATION INFORMATION: Prepared 02/2015 REV1