

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Zarosen Cavity Varnish
CHEMICAL NAME: Mixture
U.N. NUMBER: UN1170
U.N. DANGEROUS GOODS CLASS: Ethanol Solutions, Class 3, PGII
SUPPLIER/MANUFACTURER'S NAME: Cetylite Industries, Inc.
ADDRESS: 9051 River Road, Pennsauken, NJ 08110 USA
EMERGENCY PHONE: (800) 257-7740
BUSINESS PHONE: (800) 257-7740 or (856) 665-6111
FAX NUMBER: (856) 665-5408
DATE OF PREPARATION: December 26, 2013
DATE OF LAST REVISION: November 11, 2011

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear light amber colored liquid with an alcohol odor. May be irritating to the eyes, skin and respiratory system. May cause central nervous system depression. Irritating to the digestive tract. This product is a Flammable liquid with a flash point >13°C (55.4°F). The Environmental effects of this product have not been investigated. Release of this product is anticipated to have adverse effects in the aquatic environment.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS



EUROPEAN and (GHS) Hazard Symbols

Signal Word: **Danger!****EU LABELING AND CLASSIFICATION:**

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1

EC# 200-578-6 Annex I Index# 603-002-00-5

EC# 200-662-2 Annex I Index# 606-001-00-8

EC# 231-791-2 This substance are not classified in the Annex I of Directive 67/548/EEC

EC# 232-527-9 This substance are not classified in the Annex I of Directive 67/548/EEC

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

Ethyl Alcohol, Acetone

GHS Hazard Classification(s):

Flammable Liquid Category 2

Skin Corrosion/Irritation Category 4

Eye Irritant Category 2

STOT SE Category 3

Hazard Statement(s):

H225: Highly flammable liquid and vapor

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

Precautionary Statement(s):

P261: Avoid breathing mist/vapors/spray

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC:

[F] Flammable, [Xi] Irritant

Risk Phrases:

R11: Highly flammable

R36: Irritating to eyes

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapors may cause drowsiness and dizziness

Safety Phrases:

S7: Keep container tightly closed

S9: Keep container in a well ventilated place

S16: Keep away from sources of ignition – No smoking

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Zarosen Cavity Varnish****HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes, ingestion or inhalation. The symptoms of overexposure are described in the following paragraphs.

INHALATION: Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.

CONTACT WITH SKIN: Irritating due to defatting action on skin. Causes redness, pain, drying and cracking of the skin.

EYES: Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness and pain.

INGESTION: Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation. **CHRONIC:** Prolonged or repeated skin contact may produce severe irritation or dermatitis.

TARGET ORGANS: **Acute:** Skin, eyes, respiratory tract **Chronic:** Skin

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Ethyl Alcohol	64-17-5	200-578-6	0044	80 – 90%	HAZARD CLASSIFICATION: [F] Flammable RISK PHRASES: R11
Acetone	67-64-1	200-662-2	0087	1 – 10%	HAZARD CLASSIFICATION: [F] Flammable, [Xi] Irritant RISK PHRASES: R11, R36, R66, R67
Water	7732-18-5	231-791-2	Not Listed	1 – 10%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Copal Resin	9000-14-0	232-527-9	Not Listed	1 – 10%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives, Latin America, South America and the Japanese Industrial Standard *JIS Z 7250: 2000*.

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contact lenses if present. Seek medical attention.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops or persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional. Aspiration hazard: If vomiting occurs, keep head below hips to prevent aspiration into lungs.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or respiratory problems may be aggravated by prolonged exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: >13°C (55.4°F)
AUTOIGNITION TEMPERATURE: >363°C (685°F)

**Zarosen Cavity Varnish**

FLAMMABLE LIMITS (in air by volume, %): Lower (LEL): 3.3%

Upper (UEL): 19.0%

FIRE EXTINGUISHING MATERIALS:

Dry chemical, foam, carbon dioxide or water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge.

Explosion Sensitivity to Mechanical Impact:

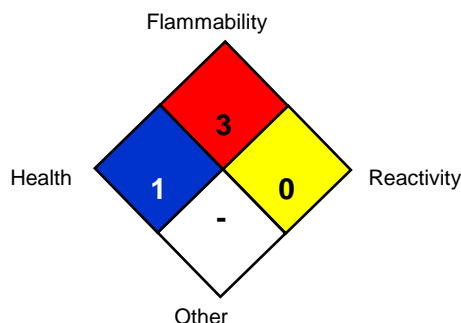
No

Explosion Sensitivity to Static Discharge:

No

SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM**HMIS RATING SYSTEM**

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			1
FLAMMABILITY HAZARD (RED)			3
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Contain spill if safe to do so. Eliminate all sources of ignition. Always wear proper PPE. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate closed container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Store containers in a cool, dry location away from heat and sources of ignition. Keep container tightly closed when not in use. Store away from incompatible materials.

**SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION****EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm
Acetone	67-64-1	500 ppm	1000 ppm
Water	7732-18-5	Not Listed	Not Listed
Copal Resin	9000-14-0	Not Listed	Not Listed

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne mist/vapor/dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable.

If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Splash goggles or safety glasses with side shields recommended where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Compatible chemical resistant gloves recommended to prevent skin contact. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**PHYSICAL STATE:**

Liquid

APPEARANCE & ODOR:

This product is a clear light amber colored liquid with an alcohol odor.

ODOR THRESHOLD (PPM):

Not Available

VAPOR PRESSURE (mmHg):

44.6 mmHg

VAPOR DENSITY (AIR=1):

1.59

EVAPORATION RATE (nBuAc = 1):

Not Available

BOILING POINT (C°):

173°F

FREEZING POINT (C°):

Not Available

pH:

Not Available

SPECIFIC GRAVITY 20°C: (WATER =1)

0.815

SOLUBILITY IN WATER (%)

Not Available

VOC:

Not Available

REFRACTIVE INDEX:

1.370

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product may contain carbon monoxide; carbon dioxide; and other toxic materials.



MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data not available for mixture:

CAS# 64-17-5

Oral LD50 Rat: 7060 mg/kg

CAS# 67-64-1

Oral LD50 Rat: 5800 mg/kg

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Ethyl Alcohol is listed by ACGIH as a A4 - Not classifiable as a human carcinogen. These are agents which cause concern that they are carcinogenic for humans, but which cannot be assessed conclusively because of a lack of data.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

SENSITIZATION OF PRODUCT: This product does not contain ingredients that are considered a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No Data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No Data available at this time.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No Data available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, EU Member States and Japan.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Ethanol Solutions

HAZARD CLASS NUMBER and DESCRIPTION: Flammable Liquid Class 3

UN IDENTIFICATION NUMBER: UN1170

PACKING GROUP: PGII

DOT LABEL(S) REQUIRED: Flammable Class 3

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2012): 127

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

**SECTION 15 - REGULATORY INFORMATION****UNITED STATES REGULATIONS**

SARA REPORTING REQUIREMENTS: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: Yes Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): CAS# 67-64-1 5,000 Lb RQ.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredient(s) are on the California Proposition 65 list.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Class B Division 2 Flammable Liquid, Class D Division 2B materials causing other toxic effects, as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:**EU LABELING AND CLASSIFICATION:**

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt from listing
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt from listing
Korean Existing Chemicals List (ECL):	Listed or Exempt from listing
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt from listing
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt from listing
Swiss Giftliste List of Toxic Substances:	Listed or Exempt from listing
U.S. TSCA:	Listed

SECTION 16 - OTHER INFORMATION

PREPARED BY: Paul Eigbrett

GHS MSDS Compliance PLUS

www.ghsmsdscomplianceplus.com

Disclaimer: To the best of Cetylite Industries, Inc. knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product.

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: **Varnal Cavity Varnish**
 CHEMICAL NAME: Mixture
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 U.N. DANGEROUS GOODS CLASS: Ethanol Solutions, Class 3, PGII
 SUPPLIER/MANUFACTURER'S NAME: **Cetylite Industries, Inc.**
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 FAX NUMBER: (856) 665-5408
 DATE OF PREPARATION: December 26, 2013
 DATE OF LAST REVISION: New

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear light amber colored liquid with an alcohol odor. May be irritating to the eyes, skin and respiratory system. May cause central nervous system depression. Irritating to the digestive tract. This product is a Flammable liquid with a flash point >13°C (55.4°F). The Environmental effects of this product have not been investigated. Release of this product is anticipated to have adverse effects in the aquatic environment.

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Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

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Flammable Liquid Category 2

Skin Corrosion/Irritation Category 4

Eye Irritant Category 2

STOT SE Category 3

Hazard Statement(s):

H225: Highly flammable liquid and vapor

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

Precautionary Statement(s):

P261: Avoid breathing mist/vapors/spray

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Risk Phrases:

R11: Highly flammable

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S7: Keep container tightly closed

S9: Keep container in a well ventilated place

S16: Keep away from sources of ignition – No smoking

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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EYES: Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness and pain.

INGESTION: Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation. **CHRONIC:** Prolonged or repeated skin contact may produce severe irritation or dermatitis.

TARGET ORGANS: **Acute:** Skin, eyes, respiratory tract **Chronic:** Skin

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INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional. Aspiration hazard: If vomiting occurs, keep head below hips to prevent aspiration into lungs.

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RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

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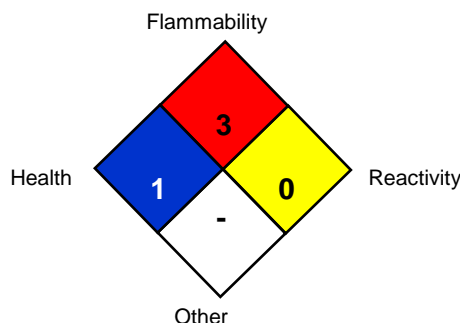
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Acetone	67-64-1	500 ppm	1000 ppm
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Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne mist/vapor/dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Splash goggles or safety glasses with side shields recommended where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Compatible chemical resistant gloves recommended to prevent skin contact. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**PHYSICAL STATE:**

Liquid

APPEARANCE & ODOR:

This product is a clear light amber colored liquid with an alcohol odor.

ODOR THRESHOLD (PPM):

Not Available

VAPOR PRESSURE (mmHg):

44.6 mmHg

VAPOR DENSITY (AIR=1):

1.59

EVAPORATION RATE (nBuAc = 1):

Not Available

BOILING POINT (C°):

173°F

FREEZING POINT (C°):

Not Available

pH:

Not Available

SPECIFIC GRAVITY 20°C: (WATER =1)

0.815

SOLUBILITY IN WATER (%)

Not Available

VOC:

Not Available

REFRACTIVE INDEX:

1.365

RESIDUE ON DRYING:

4.25%

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product may contain carbon monoxide; carbon dioxide; and other toxic materials.



MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data not available for mixture:

CAS# 64-17-5

Oral LD50 Rat: 7060 mg/kg

CAS# 67-64-1

Oral LD50 Rat: 5800 mg/kg

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Ethyl Alcohol is listed by ACGIH as a A4 - Not classifiable as a human carcinogen. These are agents which cause concern that they are carcinogenic for humans, but which cannot be assessed conclusively because of a lack of data.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

SENSITIZATION OF PRODUCT: This product does not contain ingredients that are considered a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No data available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No Data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No Data available at this time.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No Data available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, EU Member States and Japan.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Ethanol Solutions

HAZARD CLASS NUMBER and DESCRIPTION: Flammable Liquid Class 3

UN IDENTIFICATION NUMBER: UN1170

PACKING GROUP: PGII

DOT LABEL(S) REQUIRED: Flammable Class 3

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MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

**SECTION 15 - REGULATORY INFORMATION****UNITED STATES REGULATIONS**

SARA REPORTING REQUIREMENTS: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: Yes Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): CAS# 67-64-1 5,000 Lb RQ.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredient(s) are on the California Proposition 65 list.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Class B Division 2 Flammable Liquid, Class D Division 2B materials causing other toxic effects, as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt from listing
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt from listing
Korean Existing Chemicals List (ECL):	Listed or Exempt from listing
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt from listing
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt from listing
Swiss Giftlist List of Toxic Substances:	Listed or Exempt from listing
U.S. TSCA:	Listed

SECTION 16 - OTHER INFORMATION

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