

SAFETY DATA SHEET

SDS IDENTIFICATION NAME: T-Strata 330 Resin-A

DATE: 06/21/2019

PAGE: 1 OF 14

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

MANUFACTURER:
STRUCTURAL TECHNOLOGIES, LLC
10150 Old Columbia Road
Columbia, MD 21046

EMERGENCY TELEPHONE NUMBER:
1-800-424-9300
INFORMATION TELEPHONE NUMBER:
1-410-859-6539

CHEMICAL FAMILY: Epoxy Adhesive

NOTE: Safety Data Sheets for T-Strata 330 Part B **MUST** be reviewed together with this data sheet. The mixture of part A and part B does not produce any additional hazardous substances or components other than those listed in the data sheet for each component.

SECTION II: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

APPEARANCE AND ODOR:

Clear. Liquid. May cause skin or eye irritation. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further exposure. If symptoms persist, get medical attention.

STATEMENTS OF HAZARD:

CAUTION! MAY CAUSE EYE AND SKIN IRRITATION, TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRIMARY ROUTES OF EXPOSURE:

EYES--YES SKIN CONTACT--NO INHALATION--YES INGESTION--NO

HMS RATING:

HEALTH--1 FLAMMABILITY--1 REACTIVITY--0 SPECIAL--NONE

PICTOGRAM:



SIGNAL WORD: WARNING

POTENTIAL HEALTH EFFECTS:

EYES: Slightly irritating.

SKIN: May cause sensitization.

INHALATION: May cause slight irritation to the respiratory system.

INGESTION: May cause gastrointestinal irritation, nausea, and vomiting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting eye, skin, and respiratory disorders may be aggravated by exposure.

CHRONIC HEALTH EFFECTS: May cause sensitization by contact. Prolonged or repeated exposure to epoxy resin can cause irritation to skin, eyes, skin sensitization, and temporary eye injury. Certain epoxy resins are reported to be mutagenic in some laboratory tests.

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL or COMPONENT	CAS NUMBER	% BY WEIGHT	OSHA(PEL)	ACGIH(TLV)
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	>50%	Not determined	Not determined
o-Cresyl Glycidyl ether	2210-79-9	<50%	Not determined	Not determined

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200) in addition; other substances not Hazardous per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

SECTION IV: FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

EYES: Flush eyes with plenty of water for 15 minutes. If irritation persists get medical attention.

SKIN CONTACT: Wash with water. If irritation, rash or other disorders develop, get medical attention immediately.

INHALATION: Leave area to breath fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

INGESTION: Do not induce vomiting unless advised by a physician. Call nearest Poisson Control Center or Physician immediately.

SECTION V: FIRE FIGHTING MEASURES

FLASH POINT/METHOD OF DETERMINATION: > 267°F/131°C, Pensky-Martens Closed Cup

MEANS OF EXTINCTION: This product is not expected to ignite under normal conditions of use.

FLAMMABLE LIMITS L F L , U F L : Not available

FIRE-FIGHTING EQUIPMENT: Use accepted firefighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

FIRE AND EXPLOSION HAZARD: This product is not expected to ignite under normal conditions of use.

SPECIAL FIRE HAZARDS: Smoke, fumes. Avoid exposure through use of a self-contained, positive-pressure breathing apparatus.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PROCEDURES IN CASE OF ACCIDENTAL RELEASE OF LEAKAGE: Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth, or other suitable material. Transfer to appropriate container for disposal.

SECTION VII: HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin, eyes, and clothing. Keep container closed when not in use. Precautions also apply to emptied containers.

Store in sealed containers in a dry, ventilated, and above freezing warehouse location.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Avoid eye and skin contact. Wear chemical safety glasses or goggles. In some applications face shields may be necessary. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

SKIN PROTECTION: Protective clothing such as uniforms, Tyvek® coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves, resistant to chemicals are required.

RESPIRATORY PROTECTION: Not ordinarily required. If vapor or mist is generated, use a NIOSH approved organic vapor respirator. If sufficient dust is generated during machining of the cured product, use a NIOSH approved dust respirator.

VENTILATION: Local exhaust ventilation recommended sufficient to control the vapor, mist or dust being generated. If exhaust ventilation is not available or is inadequate, use MSHA or NIOSH approved respirator, as appropriate.

OTHER PROTECTIVE EQUIPMENT: For operations where contact can occur, Tyvek® coveralls, apron, and rubber foot coverings are recommended. A safety eye wash facility should be available.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. Remove any contaminated clothing and launder before reuse. Properly dispose of shoes and clothing that are extremely contaminated. Use vacuum equipment to remove cured product dust from clothing and work areas. Compressed air is not recommended.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Liquid, clear to yellow, epoxy odor
BOILING POINT (° F/° C):	Not available
MELTING POINT (° F/° C):	Not available
SPECIFIC GRAVITY (WATER = 1):	1.13
pH OF UNDILUTED PRODUCT:	Not available
VAPOR PRESSURE (mm Hg.):	Not available
VAPOR DENSITY (AIR-1):	Heavier than air
VISCOSITY:	Not available
PERCENT (%) VOC:	0.0%
SOLUBILITY IN WATER:	Insoluble

SECTION X: STABILITY AND REACTIVITY

INCOMPATIBLE MATERIALS: Avoid contact with acids, base amines, and epoxy curing agents.

SECTION XI: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY;

Oral LD50	> 500 mg/kg (Mouse) > 500 mg/kg (Rat) > 1,000 mg/kg (Rat) > 19 mg/kg (Rabbit) > 3,980 mg/kg (Rat) > 3,000 mg/kg (Rat) > 800 mg/kg (Mouse) 11,400 mg/kg (Rat) 15,600 mg/kg (Mouse) > 15,000 mg/kg (Rat) > 2,000 mg/kg (Rat) > 2,000 mg/kg (Rat) > 2,000 mg/kg (Rat)
Dermal LD50	> 2,000 mg/kg (Rat) > 2,000 mg/kg (Rabbit) > 1,600 mg/kg (Mouse) > 1,600 mg/kg (Rat) > 3,450 mg/kg (Rabbit) > 800 mg/kg (Rat) > 3,450 mg/kg (Rabbit)

SECTION XII: ECOLOGICAL INFORMATION

Acute hazards to the aquatic environment:	No data available.
Chronic hazards to the aquatic environment:	No data available.
Persistence and degradability:	No data available.

Biodegradation Product:	No data available.
Bioaccumulative potential, Bioconcentration Factor (BCF)	No data available.
Mobility in soil:	No data available.
Other adverse effects:	Toxic to aquatic life with long lasting effects.

SECTION XIII: DISPOSAL CONSIDERATIONS

ACTION TO TAKE FOR SPILLS/LEAKS: Prevent inhalation of vapor, ingestion, and contact with skin, eyes, and clothing. Wear protective gear during clean up. Keep container closed when not in use. Precautions also apply to emptied containers. Store in sealed containers in a dry, ventilated, and above freezing warehouse location.

WASTE DISPOSAL METHODS: It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the US Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

SECTION XIV: TRANSPORTATION INFORMATION

DOT AND IATA:

PROPER SHIPPING NAME	Not regulated
HAZARD CLASS	Not regulated
IDENTIFICATION NUMBER	Not regulated
PACKING GROUP	Not regulated
LABEL REQUIRED:	None

IMDG:

PROPER SHIPPING NAME	Not regulated
HAZARD CLASS	Not regulated
IDENTIFICATION NUMBER	Not regulated
PACKING GROUP	Not regulated
LABEL REQUIRED:	None

SECTION XV: REGULATORY INFORMATION

FEDERAL EPA

SARA Title III:

Section 313 Components: None present or none present in regulated quantities.

Section 311/312 Hazards: Acute health hazard.

TSCA- Inventory status: All components are all listed or exempt from the TSCA inventory.

OSHA Status: Considered hazardous based on the following criteria: Irritant

OSHA Flammability: Not regulated

U.S. STATE REGULATIONS

Mass RTK Components: Epichlorohydrin (CAS No. 106-89-8)

Penn RTK Components: Bisphenol A Polyglycidyl Ether Resin (25068-38-6)

NJ RTK Components: Bisphenol A Polyglycidyl Ether Resin (25068-38-6)

State of California: For more information go to www.P65Warnings.ca.gov

SECTION XVI: OTHER INFORMATION

SPECIAL PRECAUTIONS: Empty containers will retain some of the product residue. When handling or disposing of them, follow all label warnings, other instructions and waste disposal procedures.

EXPLANATION AND DISCLAIMER: Wherever such words or phrases as "hazardous," "toxic," carcinogen," appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. **ANY EXPOSURE CAN ONLY BE UNDERSTOOD WITHIN THE ENTIRE CONTEXT OF ITS OCCURRENCE, WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE SDS, AMOUNT AND DURATION OF EXPOSURE, OTHER CHEMICALS PRESENT AND PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.**

The data provided is based on the information received from our raw material suppliers and other sources believed to be reliable. **THIS DATA DOES NOT CONSTITUTE A GUARANTEE (EXPRESSED OR IMPLIED), WARRANTY (INCLUDING WARRANTY WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY US WITH RESPECT TO THE DATA, THE PRODUCT DESCRIBED OR IT'S USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO US. WE DISCLAIM LIABILITY FOR DAMAGE OR INJURY INCURRING DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT.**

STRUCTURAL TECHNOLOGIES, LLC urges suppliers and users of this product to evaluate its suitability and compliance with local regulations, as STRUCTURAL TECHNOLOGIES, LLC cannot foresee the nature of the final application nor final location of usage.

SAFETY DATA SHEET



SDS IDENTIFICATION NAME: T-Strata 330 Resin-Part B DATE: 06/21/2019 PAGE: 6 OF 14

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INFORMATION TELEPHONE NUMBER:
1-410-859-6539

CHEMICAL FAMILY: Epoxy Adhesive

NOTE: Safety Data Sheets for T-Strata 330 Part A MUST be reviewed together with this data sheet. The mixture of part A and part B does not produce any additional hazardous substances or components other than those listed in the data sheet for each component.

SECTION II: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: APPEARANCE AND ODOR:

Clear. Liquid. Mild pungent. May cause slight irritation to the respiratory system. Move to fresh air.

STATEMENTS OF HAZARD:

CORROSIVE - CAUSES EYE AND SKIN IRRITATION, HARMFUL IF SWALLOWED OR INHALED, MAY CAUSE LUNG INJURY IF SWALLOWED AND ASPIRATED, SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. TOXIC TO AQUATIC LIFE.

GHS Classification

Acute toxicity, Category 4 (Oral)
Skin corrosion, Category 1A
Serious eye damage, Category 1
Skin sensitization, Category 1
Reproductive toxicity, Category 2

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child

SIGNAL WORD: DANGER

PRIMARY ROUTES OF EXPOSURE:

EYES--YES SKIN CONTACT--YES

INHALATION--YES

INGESTION--YES

HAZARD PICTOGRAMS:



PRECAUTIONS/PREVENTION: Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/clothing/eye & face protection.

RESPONSE:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Immediately flush with water/soap for several minutes. Remove contaminated clothing and shoes.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure.

UNKNOWN TOXICITY - HEALTH

Acute Toxicity, oral:	16.8%
Acute Toxicity, dermal:	25.53%
Acute Toxicity, inhalation, vapor:	96.02%
Acute Toxicity, inhalation, dust/mist:	93.89%

UNKNOWN TOXICITY - ENVIRONMENT

Acute hazards to aquatic environment:	74.79%
Chronic hazards to aquatic environment:	97.48%

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL OR COMPONENT	CAS NUMBER	% BY WEIGHT	OSHA(PEL)	ACGIH(TLV)
1-3 Cyclohexanedimethanamine	2579-20-6	10 - 25%	N/E	N/E
Poly(oxypropylene) diamine	9046-10-0	10 - 20%	N/E	N/E
Bisphenol A	80-05-7	5 - <10%	N/E	N/E
2-Methyl-1,5-pentanediamine	15520-10-2	5 - <10%	N/E	N/E
4-Nonylphenol	84852-15-3	3 - <5%	N/E	N/E
4-tert-Butylphenol	98-54-4	3 - <5%	N/E	N/E
Benzyl alcohol	100-51-6	1 - <5%	N/E	N/E
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	2.5 - <5%	N/E	N/E
m-Xylenediamine	1477-55-0	1 - <3%	50 ppm	0.1 mg/m ³
Stoddard solvent (Mineral Spirits)	8052-41-3	0.1 - <1%	100 ppm	500 ppm

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SECTION IV: FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately. Extreme irritation of eyes and mucous membranes, including burning and tearing.

SKIN CONTACT: Immediately flush with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes. If irritation, rash, or other disorders develop, get medical attention immediately.

INHALATION: Call a physician or poison control center immediately. Move to fresh air. If breathing is difficult, give oxygen. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

INGESTION: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

CHRONIC HEALTH EFFECTS: May cause sensitization by contact. Prolonged or repeated exposure to epoxy resin can cause irritation to skin, eyes, skin sensitization, and temporary eye injury. Certain epoxy resins are reported to be mutagenic in some laboratory tests. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

SECTION V: FIRE FIGHTING MEASURES

GENERAL FIRE HAZARDS: No unusual fire or explosion hazards noted.

MEANS OF EXTINCTION: Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

FLAMMABLE LIMITS LFL, UFL: No data available

FIRE-FIGHTING EQUIPMENT: Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

SPECIAL FIRE HAZARDS: During fire, gases hazardous to health may be formed.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

ENVIRONMENTAL PRECAUTIONS: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION VII: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND STORAGE: Prevent inhalation of vapor, ingestion, and contact with skin, eyes, and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions, away from heat, and all ignition sources. Store locked up.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Avoid eye and skin contact. Wear chemical safety glasses or goggles. In some applications face shields may be necessary. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

SKIN PROTECTION:

HAND PROTECTION: Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

OTHER: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

RESPIRATORY PROTECTION: Wear suitable approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the SDS. Follow manufacturer's directions for respirator use.

VENTILATION: Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate. Good general ventilation (typically 10 air changes per hour) should be used.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. Remove any contaminated clothing and launder before reuse. Properly dispose of shoes and clothing that are extremely contaminated. Use vacuum equipment to remove cured product dust from clothing and work areas. Compressed air is not recommended.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, Amber liquid
ODOR:	Mild pungent
BOILING POINT (°F/°C):	Not available
MELTING POINT (°F/°C):	Not available
FLASH POINT (°F/°C):	>200°F/93°C, Setaflash Closed Cup
EVAPORATION RATE:	Slower than Ether
SPECIFIC GRAVITY (WATER = 1):	1.02
pH OF UNDILUTED PRODUCT:	Not available
VAPOR PRESSURE (mm Hg.):	Not available
VAPOR DENSITY (AIR-1):	Heavier than air
VISCOSITY:	Not available
PERCENT (%) VOC:	0.0%: Tested per ASTM D2369-95 Part A and Part B mixed together
SOLUBILITY IN WATER:	Practically Insoluble

SECTION X: STABILITY AND REACTIVITY

STABILITY: Material is stable under normal storage, handling, and use.

POSSIBILITY OF HAZARDOUS REACTIONS: No data available.

CONDITIONS TO AVOID: Avoid heat or contamination.

INCOMPATIBLE MATERIALS: Avoid contact with acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors, and appropriate precautions should be taken.

SECTION XI: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion:	Harmful if swallowed.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	May be harmful in contact with skin. Causes severe skin burns.
Eye contact:	Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral - Product:	ATEmix: 1912.59 mg/kg
Dermal - Product:	ATEmix: 4449.59 mg/kg

Inhalation - Product: ATEmix: 11 mg/l
Repeated dose toxicity - Product: No data available.

Skin Corrosion/Irritation - Product: No data available.
Specified substance(s):
1,3- Cyclohexanedimethanamine in vivo (Rabbit): Corrosive Experimental result, key study
Poly(oxypropylene) diamine (Rabbit): Corrosive Experimental result, Supporting study
2-Methyl-1-5-pentamine in vivo (Rabbit): Category 1A. Experimental result, key study
4- Nonyl Phenol in vivo (Rabbit): Category 1B. Experimental result, key study
4- tert-Butylphenol in vivo (Rabbit): Highly irritating Experimental result, key study
4- Benzyl Alcohol in vivo (Rabbit): Not irritant Experimental result, key study
Bisphenol A Polyglycidyl Ether Resin in vivo (Rabbit): slightly irritating Experimental result, key study
m-Xylenediamine in vivo (Rat): Corrosive Experimental result, Key study

Serious Eye Damage/Eye Irritation
Product: No data available.
Specified substance(s):
Poly(oxypropylene) diamine Rabbit, 24 hrs: Corrosive
4-Nonylphenol Rabbit, 24-72 hrs: Corrosive
4-tert-Butylphenol Rabbit, 24-72 hrs: Category 1
Bisphenol A Polyglycidyl Ether Resin Rabbit, 24 hrs: Slightly irritating

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity - Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro - Product: No data available.

In vivo - Product: No data available.

Reproductive toxicity - Product: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard - Product: No data available.

Other effects: No data available.

SECTION XII: ECOLOGICAL INFORMATION
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ECOTOXICITY:

Acute hazards to the aquatic environment:

Fish - Product:	No data available.
Specified substance(s):	
Bisphenol A	LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h: 3.6 – 5.4 mg/l
4-Nonylphenol	LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h: 0.138 mg/l
4-tert-Butylphenol	LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h: 4.71– 5.62 mg/l
Benzyl Alcohol	LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h: 460 mg/l
Bisphenol A Polyglycidyl Ether Resin	LC 50 (<i>Oncorhynchus mykiss</i>), 96 h: 2 mg/l Experimental result, Key Study

Aquatic Invertebrates - Product: No data available.

Chronic hazards to the aquatic environment:

Fish - Product:	No data available.
Specified substance(s):	
Bisphenol A Polyglycidyl Ether Resin	NOEC (<i>Oncorhynchus mykiss</i>), 91d : 0.006 mg/l Experimental result, Key Study
Aquatic Invertebrates - Product:	No data available.
Specified substance(s):	NOEC (<i>Daphnia magna</i>), 21d : 0.3 mg/l Experimental result, Key Study
Toxicity to Aquatic Plants - Product:	No data available.

Persistence and Degradability

Biodegradation - Product:	No data available.
BOD/COD Ratio - Product:	No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)	
Product:	No data available.
Specified substance(s):	
4-Nonylphenol	Fathead minnow (<i>Pimephales promelas</i>), Bioconcentration Factor (BCF): 988 (Flow through)
Bisphenol A Polyglycidyl Ether Resin	Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key Study

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Specified substance(s):	
Bisphenol A	Log Kow: 3.32
Benzyl Alcohol	Log Kow: 1.10
Stoddard solvent (Mineral Spirits)	Log Kow: 3.16 – 7.15
Bisphenol A Polyglycidyl Ether Resin	Log Kow: 2.64 – 3.78 25C Yes Experimental result, Key Study

Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the US Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

SECTION XIV: TRANSPORTATION INFORMATION

CFR/DOT:

PROPER SHIPPING NAME	Corrosive Liquid, NOS (1,3-Cyclohexanedimethaneamine, Polyoxypropylene Diamine)
HAZARD CLASS	Corrosive Material, 8
IDENTIFICATION NUMBER	UN 1760
PACKING GROUP	II
LABEL REQUIRED	Corrosive

IMDG and TDG:

PROPER SHIPPING NAME	Corrosive Liquid, NOS (1,3-Cyclohexanedimethaneamine, Polyoxypropylene Diamine)
HAZARD CLASS	Corrosive Material, 8
IDENTIFICATION NUMBER	UN 1760
PACKING GROUP	II
LABEL REQUIRED	Corrosive

SECTION XV: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**Chemical Identity

4-Nonylphenol

Reportable quantity

De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)Hazard categories

Immediate (Acute) Health Hazards
 Acute toxicity (any route or exposure)
 Skin Corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or Skin Sensitization
 Germ Cell Mutagenicity
 Carcinogenicity
 Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Bisphenol A	

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Poly(oxypropylene) diamine	10000 lbs
1,3- Cyclohexanedimethanamine	10000 lbs
Poly(oxypropylene) diamine	10000 lbs
2-Methyl-1-5-pentamine	10000 lbs
4- Nonyl Phenol	10000 lbs
4- tert-Butylphenol	10000 lbs
Benzyl Alcohol	10000 lbs
Bisphenol A Polyglycidyl Ether Resin	10000 lbs
m-Xylenediamine	10000 lbs
Stoddard Solvent (Mineral Spirits)	10000 lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>
Bisphenol A
4- Nonylphenol

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

U.S. STATE REGULATIONS**US. California Proposition 65**

Warning Cancer and Reproductive harm P65 warning

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

<u>Chemical Identity</u>
Bisphenol A, m-Xylenediamene

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u>
Bisphenol A,4-Nonylphenol, Benzyl Alcohol, m-Xylenediamene

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u>
Bisphenol A,4-Nonylphenol, Benzyl Alcohol, m-Xylenediamene

US. Rhode Island RTK

<u>Chemical Identity</u>
m-Xylenediamene

Other Regulations:

Regulatory VOC (less water and exempt solvent): 19 g/l

VOC Method 310: 5.4 %

Inventory Status:

Australia AICS:	One or more components in this product are not listed on or exempt from Inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from Inventory.
China Inv. Existing Chem Subs:	One or more components in this product are not listed on or exempt from Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from
Inventory.Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from Inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from Inventory
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from Inventory.

SECTION XVI: OTHER INFORMATION

SPECIAL PRECAUTIONS: Empty containers will retain some of the product residue. When handling or disposing of them, follow all label warnings, other instructions and waste disposal procedures.

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