

MATERIAL SAFETY DATASHEET



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MSDS-0107
OB-101 (Part A)
Rev. Date 12/07/07
Supersedes: 07/06

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: OMEGABOND 101 (Part A)
CHEMICAL FAMILY: Epoxy Adhesive
GENERAL DESCRIPTION: Two-part Epoxy Resin; "A" Component (White)
SUPPLIER: OMEGA Engineering, Inc.
ADDRESS: PO Box 4047
Stamford, CT 06907
TELEPHONE: (203) 359-1660

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

EYE IRRITANT. SKIN IRRITANT. SKIN SENSITIZER. White Paste Slight Odor

EYE CONTACT: Irritating, but does not injure eye tissue.

SKIN CONTACT: Irritating to the skin. Repeated and/or prolonged contact may cause skin sensitization.

INHALATION: Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

INGESTION: Ingestion may cause irritation of the gastrointestinal tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY:	Formulated Epoxy Resin	
COMPONENT	CAS NUMBER	CONCENTRATION (% by weight)
Epoxy Resin	Proprietary	>50

SECTION 4. FIRST AID MEASURES

EYE: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

SKIN CONTACT: Remove grossly contaminated clothing, including shoes, and launder before reuse. Discard shoes. Wash skin with soap and water. If symptoms develop, obtain medical attention.

INHALATION: Remove to fresh air. Administer oxygen to aid breathing. Get medical attention.

INGESTION: DO NOT attempt to give anything by mouth to an unconscious person. If individual is conscious, give water to dilute stomach contents. Get prompt medical attention.



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SECTION 5. FIREFIGHTING MEASURES

AUTOIGNITION:	Not Available
FLASH POINT:	>200°F
EXTINGUISHING MEDIA:	Foam, Water spray or fog, CO2 Dry Chemical; Do not use direct water stream on burning liquid.
SPECIAL FIREFIGHTER PROCEDURES:	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Cool exposed equipment with water spray.
FIRE & EXPLOSION HAZARDS:	Combustion at high temperatures. Combustion will evolve toxic and irritant vapors. Polymerization may take place at elevated temperatures.
HAZARDOUS COMBUSTIBLE PRODUCTS:	Thermal decomposition products are hazardous and/or toxic. Carbon monoxide, Carbon dioxide. Aldehydes
LOWER EXPLOSION LIMIT (5):	Not Applicable
HIGHER EXPLOSION LIMIT (5)	Not Applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Evacuate immediate area and dike area to contain spill. Extinguish open flames and ignition sources in the immediate area. Wear proper protective clothing, gloves, and splash goggles. Absorb as much of spilled material as possible with rags, sand, vermiculite or other absorbent material. Scrape absorbed material into designated waste containers. Wash area thoroughly with detergent and rinse, taking care to prevent runoff into drains or other waterways. All spilled material, absorbed waste and wash water must be disposed of in accordance with all Federal, state and local regulations.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

SECTION 7. HANDLING AND STORAGE

STORAGE TEMPERATURE:	25°C
SHELF LIFE (Days):	365
HANDLING/STORAGE:	Keep containers properly sealed when not in use.
SENSITIVITY TO STATIC ELECTRICITY:	No
SPECIAL SENSITIVITY:	Avoid excessive heat.
SENSITIVITY TO MECHANICAL IMPACT:	No
OTHER PRECAUTIONS:	This material should not be spilled, dumped, or flushed into sewers or public waterways.



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SECTION 16. OTHER INFORMATION

HMIS® HAZARD RATINGS

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs by OSHA's 290 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual.

When two ratings are provided for Health, the first represents the material "as supplied", and the second represents the material "in use"

* = chronic health hazard

HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

HEALTH	FLAMMABILITY	PHYSICAL HAZARD
3	1	0

Recommended use	Adhesive
MSDS Date	December 07, 2007
For Information Contact:	OMEGA Engineering, Inc. (203) 359-1660
Changes since previous issue	Section 2; Section 3



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SECTION 15. REGULATORY INFORMATION

TSCA: All components are on the TSCA inventory

CANADIAN DOMESTIC SUBSTANCE LIST (DSL): Is on DSL

China (IECSC): On the IECSE Inventory.

Australia (AICS): On the AICS Inventory

Korea (KECI): On the KECI Inventory

Philippines (PICCS): On the PICCS Inventory

SARA - Section 313 (Superfund Amendments and Reauthorization act of 1986 - 40CFR 372)
Contains no substances at or above the reporting threshold under Section 313.

CALIFORNIA PROPOSITION 65

WARNING: This product contains following chemicals that are known to the state of California to cause cancer, birth defects or other reproductive harm.

Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts.

COMPONENT	CAS NUMBER
Phenyl glycidyl ether	122-60-1
Epichlorohydrin	106-89-8



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION)

VENTILATION REQUIREMENTS: Provide local exhaust ventilation system to meet published exposure limits.

EYE PROTECTION REQUIREMENTS: Wear safety glasses with side shields.

GLOVE REQUIREMENTS: Employees must wear appropriate protective gloves to prevent contact with this substance. Nitrile rubber or FKM gloves are recommended. Cotton or other absorbent gloves should not be worn.

CLOTHING REQUIREMENTS: Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

CHANGE/REMOVAL OF CLOTHING: Remove contaminated clothing and launder before reuse.

WASH REQUIREMENTS: Wash exposed areas with soap and water.

RESPIRATOR REQUIREMENTS: NIOSH approved respirator if required. Self-contained breathing apparatus in emergency and non-routine situations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE:	Mixture
PHYSICAL FORM:	Paste
COLOR:	White
ODOR:	Slight
ODOR THRESHOLD:	None Established
MOLECULAR WEIGHT:	Not Applicable
OXIDIZING PROPERTIES:	Not Applicable
BOILING POINT:	Not Determined
SOLUBILITY IN WATER:	Insoluble
PARTITION COEFFICIENT (n-octanol/water):	Not Determined
SPECIFIC GRAVITY (Water=1):	1.21
EVAPORATION RATE:	Not Determined
VAPOR PRESSURE (mmHg):	Negligible @ 25°C
VAPOR DENSITY (air=1):	>1.0
VOLATILES:	<0.5%
VOLATILE ORGANIC COMPOUNDS:	5.8 g/liter
AUTOIGNITION:	Not available
FLASH POINT:	>200°F



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SECTION 10. STABILITY AND REACTIVITY

STABILITY:	Stable
STABILITY DETAIL:	Material is stable under recommended storage temperatures and pressures.
MATERIALS TO AVOID:	Strong acids, Strong bases, Strong oxidizers, Amines, MERCAPTANS
CONDITIONS TO AVOID:	Elevated temperatures
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition product are hazardous and/or toxic. Carbon monoxide, carbon dioxide. Aldehydes
REACTIVITY:	May polymerize with amine compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Route of Entry: Eye Contact; Skin Contact; Inhalation; Ingestion

CARCINOGEN	IARC (group)	NTP	OSHA SUBSTANCE SPECIFIC REGULATION
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COMPONENT
There is no evidence that product poses a carcinogenic risk under normal conditions of handling and use.

CHRONIC (Long Term) EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE: The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.

TARGET ORGANS: Skin; Eyes

SKIN SENSITIZATION: Sensitizer. May cause allergic reaction.

PRODUCT TOXICOLOGY:
PRODUCT INFORMATION: This data sheet is based on a consideration of the properties of the constituents.

COMPONENT Epoxy Resin	ORAL TOXICITY Oral LD50: Rat > 5000 mg/kg	NOTES ON ORAL TOXICITY Unlikely to be hazardous if swallowed.
COMPONENT Epoxy Resin	DERMAL TOXICITY Dermal LD50: Rabbit > 6000 mg/kg	NOTES ON DERMAL TOXICITY Repeated or prolonged skin contact may result in moderate irritation. Repeat and/or prolonged contact may cause skin sensitization.
COMPONENT Epoxy Resin	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.
COMPONENT Epoxy Resin		NOTES ON EYE IRRITATION May cause eye irritation.



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SECTION 12. ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONMENT:	May cause harm to aquatic organisms. Do not allow to enter drains, sewers, or watercourses.
MOBILITY:	Insoluble
PERSISTENCE AND DEGRADABILITY:	Not readily biodegradable
POTENTIAL TO BIOACCUMULATE:	The product has low potential for bioaccumulation
AQUATIC TOXICITY:	None Established

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Disposal should be in accordance with local, state, or national legislation.
EMPTY CONTAINER WARNINGS:	Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

SECTION 14. TRANSPORTATION INFORMATION

This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION:	Not Regulated
ICAO/IATA CLASSIFICATION:	Not classified as dangerous.

The information provided herein may not include the impact of additional regulatory requirements (eg., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.



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SECTION 16. OTHER INFORMATION

HMIS® HAZARD RATINGS

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs by OSHA's 290 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual.

When two ratings are provided for Health, the first represents the material "as supplied", and the second represents the material "in use"

* = chronic health hazard

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HEALTH	FLAMMABILITY	PHYSICAL HAZARD
3	1	0

Recommended use	Adhesive
MSDS Date	January 11, 2008
For Information Contact:	OMEGA Engineering, Inc. (203) 359-1660
Changes since previous issue	Section 2; Section 3

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MSDS-0107
OB-101 (Part B)
Rev. Date 01/11/08
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	OMEGABOND 101 (Part B)
CHEMICAL FAMILY:	Epoxy Adhesive (Hardener)
GENERAL DESCRIPTION:	Two-part Epoxy Resin; "A" Component (White)
SUPPLIER:	OMEGA Engineering, Inc.
ADDRESS:	PO Box 4047 Stamford, CT 06907
TELEPHONE:	(203) 359-1660

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!
Possible cancer hazard.
CORROSIVE. CAUSES SEVERE OR PERMANENT DAMAGE TO THE EYES.
SEVERE SKIN IRRITANT. MAY CAUSE PERMANENT DAMAGE.
HARMFUL IF INHALED.
EYE IRRITANT.
HARMFUL IF SWALLOWED.
RESPIRATORY SENSITIZER.
SKIN SENSITIZER.
White Paste Amine Odor

EYE: Extremely severe irritant/corrosive. May cause severe burns which could lead to permanent damage or total loss of vision. The vapor and the liquid may cause burning, intense irritation and excessive watering of the eye.

SKIN CONTACT: Severely irritating; may cause permanent skin damage. Can be rapidly absorbed through skin. Repeated and/or prolonged contact may cause skin sensitization.

INHALATION: Vapor or aerosol, if generated, can cause irritation of the eyes, nose, and respiratory tract. Possible respiratory sensitizer. Avoid breathing vapors or mists. Exposure to high concentrations may produce lung damage.

INGESTION: Severe irritation to mouth, throat, and stomach.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY:	Formulated Epoxy Resin	
COMPONENT	CAS NUMBER	CONCENTRATION (% by weight)
3.3' Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	10-20
Epoxy resin	PROPRIETARY	5-10
Titanium dioxide	13463-67-7	<0.5

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SECTION 4. FIRST AID MEASURES

EYE: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

SKIN CONTACT: Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Obtain immediate medical attention.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

INGESTION: If individual is conscious, give water to dilute stomach contents. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

AUTOIGNITION:	Not Available
FLASH POINT:	>200°F
EXTINGUISHING MEDIA:	CO ₂ ; Dry Chemical; Water Spray
SPECIAL FIREFIGHTER PROCEDURES:	Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
FIRE & EXPLOSION HAZARDS:	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
HAZARDOUS COMBUSTIBLE PRODUCTS:	Carbon dioxide, carbon monoxide, oxides of nitrogen and unknown organics. Aldehydes
LOWER EXPLOSION LIMIT (5):	Not Applicable
HIGHER EXPLOSION LIMIT (5):	Not Applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:	Absorb spillages onto sand, earth, or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

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SECTION 15. REGULATORY INFORMATION

TSCA:	All components are on the TSCA inventory
Canadian Domestic Substance List (DSL):	Is on DSL
Philippines (PICCS):	On the PICCS Inventory
EINECS:	All components of this product are listed in EINECS or ELINCS, or otherwise exempt from EU notification requirements.
SARA - Section 313 (Superfund Amendments and Reauthorization act of 1986 - 40CFR 372) Contains no substances at or above the reporting threshold under Section 313.	
CALIFORNIA PROPOSITION 65 WARNING: This product contains following chemicals that are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts.	
COMPONENT	CAS NUMBER
Phenyl glycidyl ether	122-60-1
Epichlorohydrin	106-89-8



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SECTION 11. TOXICOLOGICAL INFORMATION (CONT'D)

COMPONENT	NOTES ON EYE IRRITATION
3,3'- Oxybis (ethyleneoxy) bis (propylamine)	Extremely severe irritant/corrosive. May cause severe burns which could lead to permanent damage or total loss of vision.
Epoxy Resin	May cause eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

POTENTIAL TO BIOACCUMULATE	Unknown
AQUATIC TOXICITY:	None Established

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Disposal should be in accordance with local, state, or national legislation.
EMPTY CONTAINER WARNINGS:	Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

SECTION 14. TRANSPORTATION INFORMATION

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FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION: Not Regulated

ICAO/IATA CLASSIFICATION: Not classified as dangerous.

The information provided herein may not include the impact of additional regulatory requirements (eg., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.



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SECTION 7. HANDLING AND STORAGE

STORAGE TEMPERATURE:	25°C
SHELF LIFE (Days):	365
HANDLING/STORAGE:	Store in cool, dry place. Keep in a well ventilated place.
SENSITIVITY TO STATIC ELECTRICITY:	No
SPECIAL SENSITIVITY:	Keep away from heat.
SENSITIVITY TO MECHANICAL IMPACT:	No

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION)

COMPONENT	EXPOSURE LIMITS ACGIH	OSHA	Mfg Working Standard
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	

VENTILATION REQUIREMENTS: Local exhaust.

EYE PROTECTION REQUIREMENTS: Wear safety glasses with side shields.

GLOVE REQUIREMENTS: The use of chemically resistant gloves is recommended.

CLOTHING REQUIREMENTS: Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

CHANGE/REMOVAL OF CLOTHING: Remove contaminated clothing and launder before reuse.

WASH REQUIREMENTS: Wash before eating, drinking, or using toilet facilities.

RESPIRATOR REQUIREMENTS: Local exhaust.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE:	Mixture
PHYSICAL FORM:	Paste
COLOR:	White
ODOR:	Amine
ODOR THRESHOLD:	Not Available
OXIDIZING PROPERTIES:	Not Applicable
SOLUBILITY IN WATER:	Soluble
PARTITION COEFFICIENT (n-octanol/water):	Not determined
SPECIFIC GRAVITY (Water=1):	2.000
EVAPORATION RATE:	Not Applicable
VAPOR PRESSURE (mmHg):	Negligible @ 25°C
VAPOR DENSITY (air=1):	Not Applicable
VOLATILES:	Negligible
VOLATILE ORGANIC COMPOUNDS:	Negligible
AUTOIGNITION:	Not Available
FLASH POINT:	>200°F



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SECTION 10. STABILITY AND REACTIVITY

Stability: Stable
Stability Detail: Material is stable under normal storage temperatures and pressures.
Materials to Avoid: Strong oxidizers, Strong Lewis acids, Mineral acids
Conditions to Avoid: Elevated Temperatures
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen and unknown organics. Aldehydes

SECTION 11. TOXICOLOGICAL INFORMATION

Route of Entry: Skin Contact; Eye Contact; Ingestion

CARCINOGEN	IARC (group)	NTP	OSHA SUBSTANCE Specific Regulation
COMPONENT Titanium dioxide	Yes (2B)	No	Not Listed

CHRONIC (Long Term) EFFECTS OF EXPOSURE

TARGET ORGANS:	Eyes; Skin; Respiratory system.
RESPIRATORY SENSITIZATION:	Sensitizer. May cause allergic reaction.
SKIN SENSITIZATION:	Sensitizer. May cause allergic reaction.

PRODUCT TOXICOLOGY
PRODUCT INFORMATION:

This health hazard assessment is based on consideration of the composition of this product.

COMPONENT	ORAL TOXICITY	NOTES ON ORAL TOXICITY
3.3'- Oxybis (ethyleneoxy) bis(propylamine) Epoxy Resin	Oral LD50: Rat 3160 mg/kg Oral LD50: Rat >5000 mg/kg	Corrosive to mouth, throat and stomach. Unlikely to be hazardous if swallowed.
COMPONENT	DERMAL TOXICITY	NOTES ON DERMAL TOXICITY
3.3'- Oxybis (ethyleneoxy) bis(propylamine) Epoxy Resin	Dermal LD50: Rat > 2150 mg/kg Dermal LD50: Rat > 2500 mg/kg Dermal LD50: Rat > 6000 mg/kg	Corrosive Repeat or prolonged skin contact may result in moderate irritation. Repeat and/or prolonged contact may cause skin
COMPONENT	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY
3.3'- Oxybis (ethyleneoxy) bis(propylamine) Epoxy Resin		Inhalation of dust or vapor may cause severe irritation to the nasal passages and/or the respiratory and/or the respiratory system. Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.