

Steebar, LLC

DATE OF PREPARATION 11/15/07

Material Safety Data Sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STEEBAR HARDNER- "LIQUIDGLASSCOATING"
Chemical Name and/or Family Description: AMINE MIXTURE

COMPANY INFORMATION:

Steebar LLC

P.O. Box 607

Peapack NJ 07977

TELEPHONE # (908)-204-0095

CHEM TREC # 800-424-9300

SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1% OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0% OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0% OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

PRODUCT AND/OR COMPONENT(S) CARCINOGENIC ACCORDING TO:

OSHA	IARC	NTP	OTHER	NONE X
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COMPOSITION:

CHEMICAL NAME	CAS	%
Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-(2-aminomethylethoxy)-ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	39423-51-3	40-60
Nonyl Phenol	84852-15-3	40-60
Proprietary Ingredients		<10%

THIS PRODUCT IS CONSIDERED HAZARDOUS ACCORDING TO OSHA (1910.1200)

SECTION 3 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Colorless Liquid

Odor: Ammonia-like odor

WARNING STATEMENT

**DANGER! CORROSIVE – CAUSES EYE AND SKIN BURNS
HARMFUL OR FATAL IF SWALLOWED
ASPIRATION HAZARD IF SWALLOWED
CAN ENTER LUNGS AND CAUSE DAMAGE
CAUSES RESPIRATORY TRACT IRRITATION AND CAN
CAUSE DAMAGE**

Hazardous Material Information System (United States)

Health	3
Fire	1
Reactivity	0
Personal Protection	-

National Fire Protection Association NFPA (United States)

Health	3
Flammability	1
Reactivity	0
Specific Danger	-

POTENTIAL HEALTH EFFECTS

Primary Route of Exposure

EYE X SKIN X INHALATION X INGESTION

EFFECTS OF OVEREXPOSURE:

Acute:

Eyes: Causes irritation, experienced as pain, with excess blinking and tear production, and seen as extreme redness and swelling of the eye and chemical burns of the eye. Severe eye damage may cause blindness.

Skin: Causes severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction. In addition to the potential skin irritation effects noted above, skin contact may result in other adverse health effects.

Inhalation: Vapors or mist, especially as generated from heating the material or as from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing, and discomfort in nose and throat. Prolonged or repeated overexposure may result in lung damage.

Ingestion: Causes burning of mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness, and collapse. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Sensitization Properties: This product is not expected to be a human skin sensitizer based on animal data.

Chronic: Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage.

Medical Conditions Aggravated by Exposure: Skin contact may aggravate an existing dermatitis (skin condition). Overexposure to vapor, dust or mist may aggravate existing respiratory conditions, such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

Other Remarks: This product contains one or more amines that may produce temporary and reversible hazy or blurred vision. Symptoms disappear when exposure is terminated.

SECTION 4 FIRST AID MEASURES

EYES: Immediately flush with large amounts of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately. Continue flushing for an additional 15 minutes if medical attention is not immediately available.

SKIN: Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.

INGESTION: If person is conscious and can swallow, immediately give two glasses of water (16 oz.) but do not induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION: If inhaled, remove to fresh air. If not breathing or in respiratory distress, clear person's airway and start artificial respiration. With a physician's advice, give supplemental oxygen using a bag-valve mask or manually triggered oxygen supply.

OTHER INSTRUCTIONS: Swallowing of this corrosive material may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

SECTION 5 FIRE – FIGHTING MEASURES

Ignition Temperature – AIT (Degrees C): Not determined

Flash Point (degrees C): 196.1 (385 F) (PMCC)

Flammable Limits % (lower-Upper):

Lower: Not determined

Upper: Not determined

Recommended Fire Extinguishing Agents and Special Procedures: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards: None

Special Protective Equipment for firefighters: Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues.

SECTION 6 ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Procedures in Case of Accidental Release, Breakage or Leakage: Ventilate breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

SECTION 7 HANDLING AND STORAGE

Precautions to be Taken In

Handling: Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available nearby when this product is handled or used.

Storage: Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100F, a nitrogen atmosphere is recommended.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Protection Equipment (Type)

Eye/Face Protection: Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.

Skin Protection: Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation: Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Exposure Limit for the Total Product: None established for product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale Yellow Liquid

Odor: Ammonia-like odor

Boiling Point (degrees C): Not determined

Melting/Freezing Point (degrees C): Not determined

Specific Gravity (water=1): .9812

pH: 11.6

Vapor Pressure: 1 mmHg at 180.5C (357F)

Viscosity: 200-500 cps @ 25 degrees C

VOC Content: <1% by ASTM D 2369

Vapor Density (Air = 1): >1

Solubility in Water (%): >10

Other: None

SECTION 10 STABILITY AND REACTIVITY

This Material Reacts Violently With:

AIR WATER HEAT STRONG OXIDIZERS OTHERS X NONE OF THESE

Comments: This material reacts violently with acids.

Products Evolved When Subjected to Heat or Combustion: Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

Hazardous Polymerizations: DO NOT OCCUR

SECTION 11 TOXICOLOGICAL INFORMATION**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

Oral: LD50 .22 g/kg (rat) toxic

Inhalation: Believed to be practically non-toxic

Dermal: LD50 .61 g/kg (rabbit) moderately toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin: (Draize) 8.00/8.0 (rabbit) corrosive

Eyes: (Draize) Believed to be 80.00-110.00/110 (rabbit) extremely irritating

Sensitization: (Buehler) Negative – skin (guinea pig)

OTHER: None

SECTION 12 DISPOSAL CONSIDERATIONS

Waste Disposal Methods: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks: None

SECTION 13 TRANSPORTATION INFORMATION**DOT/IMDG INFORMATION**

PROPER SHIPPING NAME:	Corrosive liquids, N.O.S., (Polyoxypropylenetriamine), Amine Mixture
HAZARD CLASS:	8 (6.1)
I. D. NUMBER:	UN 2922
PACKING GROUP:	III
PLACARDS REQUIRED:	CORROSIVE (TOXIC)

SECTION 14 REGULATORY INFORMATION

States Right-to-Know Regulations:

Chemical Name State Right-To-Know

None

State List: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan),
LA(Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI
(Rhode Island)

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 –
PROPOSITION 65:** The following detectable components of this product are substances, or belong to classes
of substances, known to the State of California to cause cancer and/or reproductive toxicity.

<u>Chemical Name</u>	<u>Cas Number</u>
None	

INTERNATIONAL REGULATIONS:

TCSA Inventory Status: This product, or its components, are listed on or are exempt from the Toxic
Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Classification: Class D, Div 1, Subdiv B: Toxic Class E: Corrosive

Canadian Inventory Status: This product, or its components, are listed on or are exempt from the Canadian
Domestic Substance List (DSL).

EINECS Inventory Status: This product, or its components, are listed on or are exempt from the European
Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical substances
(ELINCS).

Australian Inventory Status: This product, or its components, are listed on or are exempt from the
Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status: This product, or its components, are listed on or are exempt from the Japan
Ministry of International Trade and Industry (MITI) inventory.

SECTION 15 ENVIRONMENTAL INFORMATION

MARINE POLLUTANT

Aquatic Toxicity: Not determined

Mobility: Not determined

Persistence and Biodegradability: Not determined

Remarks: None

SECTION 16 OTHER INFORMATION 1/13/99

Additional Precautions: Store as a NFPA Class IIIB liquid. Keep fire and sparks away from drums. Since
empty containers retain product residue, do not cut, drill, grind, or weld on or near the container until it is
thoroughly cleaned.

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Remove all ignition
sources. Check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective
equipment. Comply with regulations governing confined space entry.

The information contained herein is believed to be accurate. It is provided independently of any sale of the
product for purpose of hazard communication as part of Steebar LLC's Product Safety Program. It is not
intended to constitute performance information concerning the product. No express warranty, or implied

warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information obtained herein. You are urged to obtain data you buy, process, use or distribute and you are encouraged and requested to advise those who may come in contact with such products of the information contained therein. Use at own risk, for commercial use only.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. Steebar LLC does not undertake to furnish advice on such matters.

Material Safety Data Sheet

DATE OF PREPARATION: 01/15/09

PRODUCT NAME: STEEBAR RESIN 1
PRODUCT CLASS: EPOXY RESIN

Steebar LLC
P.O. Box 607 Peapack NJ 07977
TELEPHONE # (908) 204-0095
EMERGENCY INFORMATION
CHEM TREC # 800-424-9300

1. INGREDIENTS: (% w/w, unless otherwise noted)

Reaction product of epichlorohydrin
bisphenol A

CAS# 025085-99-8 100%

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.

2. PHYSICAL DATA:

BOILING POINT: Not applicable.
VAP. PRESS: Not applicable.
V AP. DENSITY: Not applicable.
SOL. IN WATER: None
SP. GRAVITY: 1.15
APPEARANCE: Clear liquid of medium viscosity.
ODOR: Mild epoxy.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 405°F, 207.2°C
METHOD USED: PMCC ASTM D-93

FLAMMABLE LIMITS

LFL: Not applicable.
UFL: Not applicable.

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical.

FIRE AND EXPLOSION HAZARDS: None

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Excessive heating over long periods of time degrades the

resin. Freezing may cause a temporary haze to develop. Fire conditions increase viscosity and EEW.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Base acid, amines and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Under conditions of imperfect combustion and/or pyrolysis various phenolic compounds, CO, AND/OR CO₂ may be evolved.

HAZARDOUS POLYMERIZATION: Will not occur by itself, but mass of more than one pound of product plus and aliphatic amine will cause irreversible polymerization with considerable heat build-up.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Soak up in non-reactive absorbent material or scrape up. The residue can be removed with hot soapy water. Use of methylene chloride, acetone, or aromatic solvents in clean up poses a distinct hazard and therefore, should be avoided.

DISPOSAL METHOD: Burn in adequate incinerator or bury in approved landfill in accordance with all applicable federal, state, and local regulations.

6. HEALTH HAZARD DATA:

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Has caused allergic skin reactions in humans. Prolonged exposure not likely to cause significant skin irritation.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is >2000 mg/kg. Small amounts incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

CANCER INFORMATION: Several studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA) -based epoxy resins. In one of these, a DGEBA-based resin (containing high levels of several impurities, including a known animal skin carcinogen) was reported to produce a weak carcinogenic response in the skin of one of two strains of mice tested. Recent studies have suggested slight increases in two systemic tumor types following repeated application of certain DGEBA-containing resins (or pure DGEBA), although the response was not uniform among practically identical resins. Based on these data, and the other studies which have not shown cancer, the cause-effect relationship between DGEBA-treatment and these tumor increases is questionable. Indeed, a recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classifiable as to its carcinogenicity.

TERATOLOGY (BIRTH DEFECTS): DGEBA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

REPRODUCTIVE EFFECTS: DGEBA did not interfere with reproduction in animal studies.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Animal mutagenicity studies were

negative. In vitro mutagenicity studies were negative in some cases and positive in others.

7. FIRST AID:

EYES: Flush eyes with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: No respiratory protection should be needed. If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation.

EYE PROTECTION: Use safety glasses. Where contact with this material is likely, chemical goggles are recommended because eye contact may cause discomfort even though it is unlikely to cause injury.

9. ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: See Dow bulletin entitled "Storage, Handling, and Toxicity of Dow Epoxy Resins". Practice good caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

MSDS STATUS: Revised sections 6,7,8 and Regulatory Information.

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories"

promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories.

An immediate health hazard

This product is categorized as "an immediate health hazard due to the potential for allergic skin reaction."