

SECTION I · PRODUCT IDENTIFICATION

Manufacturers Address:
1557 Marietta Road
Atlanta, Georgia 30318
Product Type: Epoxy Resin

Emergency Phone: (800) 424-9300
Information Phone: (404) 355-8220
Revision Date: 13-June 09
Preparer: F.Spaeth

HMIS Rating
0- Minimal 1- Slight 2- Moderate
3- Serious 4- Extreme
Health: **3** Fire: **0** Reactivity: **0**

SECTION II · HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS Number	%WT	TLV	PEL
Bisphenol-A	25068-38-6	99-100	No Data Available	

SECTION III · PHYSICAL and CHEMICAL PROPERTIES

Boiling Point: >300 °F
Vapor Pressure: No Data
Solubility In Water: Negligible
Appearance/Odor: Clear yellow liquid with phenolic odor.

Vapor Density (Air=1): No Data
VOC %: 100
Specific Gravity (H₂O=1): 1.16
Evaporation Rate (BuAc=1): No Data

SECTION IV · FIRE FIGHTING MEASURES

Flash Point: None to Boil

Extinguishing Media: Water spray, agent suitable for surrounding fire, dry chemical or foam is recommended.

Fire Fighting Procedures: Use water fog, alcohol foam, dry chemical, or CO₂ to extinguish flames. Cool fire-exposed containers to prevent pressure buildup and possible container rupture. Wear self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing recommended.

Fire and Explosion Hazards: Not considered a fire or an explosion hazard.

SECTION V · STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Static electrical discharge during pouring operations.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon and various hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION VI · STORAGE AND HANDLING

Precautions To Be Taken In Handling and Storage: Do not use in confined spaces. Always store in original tightly sealed container. Containers should be grounded to prevent static sparks. Store in a cool, dry well ventilated area, away from acute fire hazards. Use non-sparking tools and equipment.

Other Precautions: Follow Label Instructions and Precautions.

SECTION VII · HEALTH AND FIRST AID

Skin: Repeated or prolonged contact can be irritating and cause skin sensation on contact.

Eyes: Liquid in eyes can be irritating and could produce stinging, redness and watering.

Inhalation: High vapor concentrations can be harmful. Breathing of vapor is expected to be irritating.

Ingestion: May be harmful if swallowed. Vomiting can cause chemical pneumonia and systemic effects.

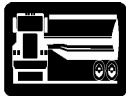
FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes with eyelids forced open. If irritation develops get medical attention.

Skin: Wash skin with soap and water. If irritation develops and persists seek medical attention.

Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

Ingestion: DO NOT induce vomiting unless instructed by a physician. Drink large amounts of water. Seek immediate medical attention.



SECTION VIII · EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Eye Protection when pouring. Goggles or full-face shield recommended.

Respiratory Protection: Confined areas, use self-contained breathing apparatus.

Ventilation: General Mechanical ventilation to prevent excessive vapor accumulation. As a safety precaution maintain exposure limits below 150 ppm.

Protective Gloves: Solvent resistant (Neoprene, Butyl, Nitrile) gloves.

Other Equipment: Protective clothing depends potential exposure conditions and may include boots, suits or apron.

SECTION IX · ACCIDENTAL RELEASE MEASURES

Small Spill: Stop source of spill. Remove all ignition sources. Absorb on inert media and collect into suitable container.

Large Spill: Plug leak at the source. Dike area to contain spill. Absorb on inert media and collect into suitable container. Avoid contaminating ground and surface water.

Waste Disposal Method: DO NOT flush to drain. Follow local, state and federal regulations for disposal.

SECTION X · TRANSPORTATION

Proper Shipping Name: Not Regulated by The U.S. Department of Transportation

Hazard Class:

UN Number:

Packaging Group:

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

WHITAKER SOLVENTS AND CHEMICALS, 280 Enterprise Street, OCOEE, FL 34761

IN CASE OF EMERGENCY CALL CHEMTREC 1-800-424-9300

CONTACT ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING
A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

PRODUCT NAME: KLEAR KOTE HARDENER

Effective Date: 5/15/00

1. INGREDIENTS:

<i>Monononphenol</i>	(CAS# 25154-52-3)	60% pbw
<i>Polyoxypropylenediamine</i>	(CAS# 9046-10-0)	30% pbw
<i>N-Aminoethylpiperazine</i>	(CAS# 140-31-8)	4% pbw

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: 430°F, 221°C

VAP PRESSURE: <1 mmHg @ 20°C, 68°F

VAP DENSITY: >1

SOL. IN WATER: Moderately soluble.

SP. GRAVITY: 0.95

APPEARANCE: Pale straw colored liquid

ODOR: Moderate amine odor

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 200°F, 93°C

METHOD USED: PMCC

FLAMMABLE LIMITS

LFL: Not Determined

UFL: Not Determined

EXTINGUISHING MEDIA: Alcohol foam, CO₂, dry chemical.

FIRE & EXPLOSION HAZARDS: None known. Treat as combustible.

FIRE -FIGHTING EQUIPMENT: Use a positive pressure, self-contained breathing apparatus and protective clothing.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Can react strongly with epoxy resins at elevated temperatures.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides when burned.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Large spill -- dike up and pump into appropriate containers. Small spill -- use noncombustible absorbent material/sand and shovel into suitable containers.

DISPOSAL METHOD: Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

6. HEALTH HAZARD DATA:

EYE: May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness. Vapors may irritate eyes.

SKIN CONTACT: May cause severe injury to skin following prolonged or repeated contact, and may cause skin sensitization or other allergic responses.

SKIN ABSORPTION: A single prolonged exposure may result in the material being absorbed in harmful amounts. The LD50 for skin absorption in rabbits is 880 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for female rats is >1000 mg/kg. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: May cause respiratory sensitization or asthma in susceptible individuals. Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC & OTHER EFFECTS: Results of in vitro ("test tube") mutagenicity tests have been negative and positive.

7. FIRST AID:

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is required. Promptly seek medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing, preferably under a safety shower. Seek medical attention immediately. Avoid prolonged or repeated contact to skin. Wash thoroughly after handling.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

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

NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Control airborne concentration below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.



RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

EYE PROTECTION: Use chemical goggles. If vapor exposure causes eye irritation, use a full-face respirator. Eye wash fountain should be located in immediate work area.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed.

10. NFPA RATING:

4 = EXTREME	HEALTH	3
3 = HIGH	FIRE	1
2 = MODERATE	REACTIVITY	0
1 = SLIGHT	SPECIFIC	-
0 = INSIGNIFICANT		

11. REGULATORY INFORMATION:

STATUS ON SUBSTANCE LISTS:

The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

FEDERAL EPA:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, and LIABILITY ACT of 1980 (CERCLA):

Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% By Weight</u>	<u>RQ</u>
NONE			

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (SARA) TITLE III:

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% By Weight</u>	
NONE			

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute	Chronic	Fire	Pressure	Reactive
Hazard	Hazard	Hazard	Hazard	Hazard
Yes	yes	no	no	no

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	
NONE			

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are contained on the chemical substance inventory list.

OTHER REGULATORY INFORMATION:**D.O.T. Shipping Name:**

Corrosive Liquids, N.O.S., Class 8, UN 1760, PG III

(Contains Polyoxpylene, Diamine, Nonphenol)

The information herein is given in good faith, but no warranty expressed or implied is made WHITAKER SOLVENTS AND CHEMICALS urges suppliers and users of this product to evaluate its suitability and compliance with local regulations as WHITAKER SOLVENTS AND CHEMICALS cannot foresee the nature of the final application nor final location of usage.