

MSDS - TLP Ball Plug Hardener

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER

Product Identifier: **HD and HR Hardener Component**
Product Use: Finger & Thumb hole plugging in bowling balls in preparation for redrilling
Product Numbers: 1005-00, 1007-00, 1022-xx (Hardener Component)
Trade Name: HD or HR Ball Plug Hardener
Chemical Family: Amine
Synonyms: Epoxy Catalyst, Epoxy Hardener

Manufactured by:
Tech-Line Products
18570 Trimble Court
Spring Lake, MI 49456

Emergency Phone: ChemTrec: U.S.A.: 800-424-9300 International: 703-527-3887

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EC Index No.	Weight %	Labels	EC Risk Phrases
Proprietary Curing Agent	Proprietary	Proprietary	<30%	C	R21/22, R34, R43
Proprietary Polymer	Proprietary	Proprietary	<40%	Xi	R36/37/38
Diethylenetriamine	000111-40-0	612-058-00-X	<10%	Xi	R36/37/38
Proprietary Additive	Proprietary	Proprietary	<10%	X	R22
Polyamines	Proprietary	Proprietary	<30%	C	R21/22, R34, R43

SECTION 3 - HAZARDS IDENTIFICATION

Product EC Risk Phrases: R21/22, R34, R43
Product EC Safety Phrases: S(1/2), S15, S24/25, S26, S27/28, S36/37/39
Product EC Labels Required: C

HMS Ratings: Estimated Health: 3 Flammability: 1 Reactivity: 0
NFPA Ratings: Estimated Health: 3 Flammability: 1 Reactivity: 0 Other: None

This product is a mixture containing numerous items requiring differing labels, warnings, risk phrases and safety phrases. The Product ratings are interpreted from the information presented by the MSD Sheets of the raw materials. The actual product information could vary from what is presented. This information is presented in good faith as a best attempt to convey the necessary information to the public and purchasers.

Warning Statement:

DANGER! Corrosive – causes eye and skin burns
Harmful or fatal if swallowed

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Harmful if absorbed through the skin
Causes respiratory tract irritation and can cause damage.
Aspiration hazard if swallowed – can enter the lungs and cause damage.

Potential Health Effects:

Acute:

Eyes:

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

Skin:

Product may cause severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction. Cyanosis.

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 over exposure may result in lung damage.

Ingestion:

Product may cause 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. Mild tachycardia. Numbness of the mouth and tongue; CNS depression; Incoordination; seizures.

Sensitization:

This product is not expected to be a human sensitizer based on data from the majority of raw material and product history. It does contain raw materials that may cause sensitization.

Chronic:

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

SECTION 4 - FIRST AID MEASURES

Eye: Flush immediately with water for 15 minutes or longer if irritation does not cease. 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. Flush and clean affected area with soap and water until irritation ceases. Discard clothing and shoes contaminated by product. It is not recommended to remove resin from skin with solvents. Solvents only increase contact area, enhance skin penetration and dry out the skin.

Inhalation: Remove from area and consult physician immediately. If breathing labored, administer oxygen using bag-valve mask or manually triggered oxygen supply.

Ingestion: Corrosive liquid. Do not induce vomiting unless directed by a physician to do so. Product has a low order of acute oral toxicity.

SECTION 5 - FIRE-FIGHTING MEASURES

Flash Point: >225°F (107°C)

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Extinguishing Media: Use water fog, foam, dry chemical or CO². Do not use a direct stream of water. Product will float and can reignite on the surface of the water.

Material will not burn unless preheated. Do not enter confined fire space without full bunker gear; including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Containers may rupture or melt when exposed to extreme heat.

Toxic fumes are let off in fire situations. Firewater runoff may be toxic.

Material is considered a combustible liquid. Class IIIB

Flammability Limits: (estimated)

LFL: 2% @150°C

UFL: 6.7% @150°C

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Wear protective equipment. Stop leak at its source; dike area; prevent material from entering waterway; prevent contact with strong oxidizers or acids; pump material to reclaim container; use absorbent on remaining material; and, shovel into disposal container. Use explosion proof equipment and non-sparking tools.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Do not wear contaminated clothing. Wash prior to eating, drinking, smoking, or use of restroom and when leaving work. Heating of non-vented container may cause container to rupture. Do not dispose of material or empty container into the environment. Avoid heat, sparks or static electricity. Use of explosion proof equipment and non-sparking tools recommended.

STORAGE: Do not store near heat or open flame. Store at ambient temperatures. Do not allow freezing or overheating. If overheating occurs, be sure to shake well prior to usage.

INCOMPATIBLE MATERIALS: Strong oxidizers and reducers.

VENTILATION: Local exhaust, unless heating to vapor or mist. Avoid breathing of mists or fumes.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Avoid prolonged or repeated breathing of vapors.

PROTECTIVE CLOTHING: Avoid contact with eyes. Wear chemical goggles if splash or contact possible. Wear chemical resistant gloves and other clothing or vapor masks as required to minimize contact.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow, oily transparent solution

Smell: Amine odor

Vapor Density: Not Applicable

Vapor Pressure: < 1mm Hg

Solubility in H₂O: Negligible

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Specific Gravity: >1.02

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable. Can auto ignite with air at approximately 675°F.
HAZARDOUS POLYMERIZATION: Will auto-polymerize at very high temperatures.
HAZARDOUS DECOMPOSITION: Fumes, carbon dioxide, carbon monoxide, acrid smoke, phenolics, and aldehydes.
CONDITIONS TO AVOID: High heat, strong oxidizers, acids, chlorinated hydrocarbons. Product will absorb CO2 from the air. Product may react violently with acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product has low acute oral toxicity. Chronic effects could include skin sensitization and lung irritation. No known carcinogenicity.

SECTION 12 - ECOLOGICAL INFORMATION

Generally not determined. Quantities involved in standard packaging suggest negligible impact probable.
BIOCONCENTRATION: Based on information for diethylenetriamine, bioconcentration potential is low (less than 100 or Log Kow less than 3). Expected to be relatively immobile in soil (Koc greater than 5000).
DEGRADATION: Based on information for diethylenetriamine, material has shown potential to biodegrade.
EXOTOXICITY: Material is slightly toxic to aquatic organisms on an acute basis.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of product by incineration in an approved chemical waste handling facility. Material once polymerized with hardener becomes relatively inert solid. Avoid landfilling of liquids. Since emptied container will contain residue from product, all labeled hazard precautions must be observed. If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local regulations.

SECTION 14 - SHIPPING INFORMATION

Bulk DOT & International Shipping Information:

UN Number: UN 1760
Hazard Class: 8
Label Required: Corrosive
UN Proper Shipping Name: Corrosive Liquid, N.O.S., (Triethylene Tetramine), UN 1760, III, 8

Ball Plug Kit Shipping Information

USA Domestic Ground:

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Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D
ID Number: N/A
Packing Group: N/A
Label Required: None

USA Domestic Air:

Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D
ID Number: N/A
Packing Group: N/A
Label Required: ORM-D-AIR

International Surface:

Proper Shipping Name: Corrosive Liquids, N.O.S., (Triethylene Tetramine)
Hazard Class: 8
ID Number: UN1760
Packing Group: III
Label Required: Corrosive
EMS # 8-15

International Air:

Proper Shipping Name: Corrosive Liquids, N.O.S., (Triethylene Tetramine)
Hazard Class: 8
ID Number: UN1760
Packing Group: III
Label Required: Corrosive
EMS # 8-15

SECTION 15 - REGULATORY DATA

SARA Title III

Section 302/304 Extremely Hazardous Substances: None

Section 311 Hazardous Categorization:

Acute: X Chronic: Fire: Reactive:

Section 313 Toxic Chemical:

None

CERCLA 102(a)/DOT Hazardous Substances:

None

TSCA:

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

EINICS Inventory Status:

Not determined.

State Right-to-Know Regulations:

None known

TSCA Inventory of Chemical Substances lists some or all of this product's components.

None known.

SARA 311/312 Hazard Categories:

Acute, Reactive

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SARA 313 Toxic Chemicals: None known.

CERCLA Hazardous Substances: None known.

Canadian Regulations:

- D1B - material is toxic with short exposure and moderate dose
- D2A - material is teratogenic, embryotoxic, or fetotoxic
- D2B - skin sensitizer
- E - Corrosive to metal or skin

Hazardous Products Act Information: This product contains the following ingredients which are controlled products and/or on the Ingredient Disclosure List (Canadian HPA Section 13 & 14):

Polymer of Epichlorohydrin	CAS# Proprietary	%: Proprietary
Diethylenetriamine	CAS# 000111-40-0	%: Proprietary

SECTION 16 – OTHER INFORMATION

Explanation of Labeling Requirements, Safety Phrases and Risk Phrases

Xi – Irritant
C – Corrosive

- S(1/2): Keep locked up and out of the reach of children.
- S15: Keep away from heat
- S24/25: Avoid contact with skin and eyes.
- S26: In case of contact with eye, rinse immediately with plenty of water and seek medical advice.
- S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

- R22: Harmful if swallowed.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R43: May cause sensitization by skin contact.

Update: 10/03/2003 - Added ChemTrec Emergency Number
Update: 6/27/2003 - Updated Material: Revised the shipping specifications and UN Information in Section 14