

SAFETY DATA SHEET

Issue Number: BPR-2.2

Issue Date: April 30, 2021

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER

1.1 Product Identifier: HD and HR Ball Plug System - Resin Component

Product Code: 1005-00, 1007-00, 1022-xx (Resin Component)

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Finger & Thumb hole plugging in bowling balls in preparation for redrilling

Uses Advised Against: Avoid usage in enclosed spaces or with poor ventilation

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer/Preparer: **Tech-Line Products**
18570 Trimble Court
Spring Lake, MI 49456

1.4 Emergency Telephone Number:

Emergency Spill Information: ChemTrec U.S.A.: 1-800-424-9300
International: +1-703-527-3887

Other Product Information: USA: 1-800-235-8324, INTL: +1-616-850-9868

SECTION 2 - HAZARDS IDENTIFICATION / EXPOSURE LIMITS

2.1 Classification of the Substance or Mixture


GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Irritation (Category 2)

Skin Sensitization (Category 1)

Hazardous to the aquatic environment, Chronic (Category 2)

2.2 GHS Required Label Elements

Pictograms	Signal Word	Hazard Statements
	WARNING	H315: Causes Skin irritation. H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P102	Keep out of the reach of children.
P103	Read label before use.
P261	Avoid breathing of vapors.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P271	Use only in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351	If in eyes rinse cautiously with water for several minutes.
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention.

P337 + P313	If eye irritation persists: Get medical advice / attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents / container to an approved waste disposal site.

2.3 Other Required Label Elements



WARNING: This product can expose you to chemicals including epichlorohydrin and phenylglycidyl ether, which are known to the State of California to cause [cancer](#). This product can expose you to chemicals epichlorohydrin and bisphenol A, which are known to the State of California to cause reproductive toxicity. For more information, go to www.P65Warnings.ca.gov (AS OF August 30, 2018)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EC Index No.	Weight %	Labels	EC Risk Phrases
Bisphenol A	025068-38-6	603-074-00-8	<60%	Xi, N	R: 36,38,43,51/53,
Proprietary Additives	Proprietary	Proprietary	<60%	Xi	R: 22, 36/37/38, 43

HMIS Ratings	NFPA Ratings	Ratings Key
Health: 1 Flammability: 1 Physical Hazard: 1 Personal Protection: C	Flammability: 1 Health: 1 Reactivity: 1 Special Notice: None	4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

Product EC Risk Phrases: R: 22, 36/37/38, 43, 51/53

Product EC Safety Phrases: S: 15, 24/25, 27/28, 37/39

Product EC Labels Required: Xi, N

This product contains items which alone require the labeling and risk phrases shown above. The actual product labels and risk phrases may vary. They are warnings particular to the raw materials incorporated into this product. They are listed to inform the user that components in this product may cause these hazardous actions to occur in particular situations.

SECTION 4 - FIRST AID MEASURES

4.1. Description of first aid measures:

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

Skin contact: Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

4.2. Most important symptoms and effects, both acute and delayed:

Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

4.3. Indication of any immediate medical attention and special treatment needed, if necessary:

Treat symptomatically.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable: Use water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Unsuitable: None known.

5.2. Special hazards arising from substance or mixture:

Unusual fire/explosion hazards: Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (10.6 Hazardous decomposition products) for additional information.

5.3. Advice for fire-fighters:

Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

6.2. Environmental precautions:

Do not flush liquid into public sewer, water systems or surface waters.

6.3. Methods and material for containment and cleaning up:

Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and laundry before reuse. Eliminate ignition sources.

6.4. References to other sections:

See Section 8 for recommendations on the use of personal protection and Section 13 for waste disposal.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling:

As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. Provide eyewash fountains and safety showers in the work area.

7.2. Conditions for safe storage, including any compatibilities:

Keep away from heat, sparks and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

7.3. Specific end use(s):

No Additional Information.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters:

None established for this product or that can be interpolated from ingredients.

8.2. Exposure Controls

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation.

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses or goggles required.

Hand protection: Avoid skin contact when mixing or handling the material by wearing impervious and chemical resistant gloves. In case of prolonged immersion or frequently repeated contact, gloves with breakthrough times greater than 480 minutes (protection class 6) are recommended. For brief contact or splash applications, gloves with breakthrough times of 30 minutes or greater are recommended (protection class 2 or greater). Suggested materials for protective gloves: Butyl rubber, Nitrile rubber, Neoprene. The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. Suitability and durability of a glove is dependent on usage (e.g. frequency and duration of contact, other chemicals which may be handled, chemical resistance of glove material and dexterity). Always seek advice of the glove supplier as to the most suitable glove material.

Skin and body protection: Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.

Further information: Eyewash fountains and safety showers are recommended in the work area.

Environmental exposure controls: See Sections 6 and 12.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue-grey oily transparent solution
Smell:	Oily epoxy smell
Vapor Density:	Not Applicable
Vapor Pressure:	< 1mm Hg, negligible
Solubility in H ₂ O:	Negligible
Specific Gravity:	>1.10
pH:	Not Applicable, non-Aqueous/Oil Base liquids do not have a pH value

SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity:

Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

10.2. Chemical stability:

This product is stable.

10.3. Possibility of hazardous reactions:

Hazardous polymerization will occur. This product will autopolymerize at very high temperatures.

10.4. Conditions to avoid:

Excessive heat and ignition sources.

10.5. Incompatible materials:

Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

10.6. Hazardous decomposition products:

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Phenolics.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: May cause eye irritation.

Skin: May cause allergic skin reaction. Causes skin irritation.

Inhalation: High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

Ingestion: Ingestion may cause irritation.

Acute toxicity information: Not classified (based on available data, the classification criteria are not met).

ATEmix (oral): >2000 mg/kg. ATEmix (dermal): >2000 mg/kg.

Inhalation LC₅₀ Species Oral LD₅₀ Species Dermal LD₅₀ Species

Product Estimate: >2000 mg/kg Rat, >2000 mg/kg Rabbit

Skin corrosion/irritation: Causes skin irritation - Category 2.

Bisphenol A epoxy resin is a Mild-moderate irritant Guinea pig.

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met).

Bisphenol A epoxy resin is a Mild-moderate irritant Rabbit.

Respiratory or skin sensitization: Skin sensitization - Category 1. BISPHENOL A EPOXY RESIN: Has caused skin sensitization in humans.

Carcinogenicity: Not classified.

Germ cell mutagenicity: Not classified (based on available data, the classification criteria are not met).

BISPHENOL A EPOXY RESIN: Mutagenicity was negative in in-vivo genotoxicity assays. Mixed results were seen in in-vitro genotoxicity assays.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT) - single exposure: Not classified (based on available data, the classification criteria are not met).

Specific target organ toxicity (STOT) - repeated exposure: Not classified.

Aspiration hazard: Not classified (based on available data, the classification

SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity:

No ecological testing has been conducted on this product.

12.2. Persistence and degradability:

Not readily biodegradable

12.3. Bio-accumulative potential:

N/E (Not established)

12.4. Mobility in soil:

N/E (Not established)

12.5. Results of PBT and vPvB assessment:

Not Available

12.6. Other adverse effects:

No additional information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14 - SHIPPING INFORMATION

Bulk DOT & International Shipping Information:

UN Number: Not Regulated
Hazard Class: None
Label Required: None
UN Proper Shipping Name: Non Regulated Plastic Liquid

14.1. UN number: UN3082 (International Only)

14.2. UN proper shipping name:

Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy phenol novolac resin, Bisphenol A epoxy resin)

14.3. Transport hazard class:

U.S. DOT hazard class: N/A (Not regulated for the US)
Non-regulated Resin (Plastic Liquid)

Canada TDG hazard class: N/A (Not regulated for Canada)

Europe ADR/RID hazard class: 9

IMDG Code (ocean) hazard class: 9

ICAO/IATA (air) hazard class: 9

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

14.4. Packing group: III

14.5. Environmental hazards:

Marine pollutant: Marine Pollutant (IMDG code 2.9.3).

Hazardous substance (USA): Not Applicable
14.6. Special precautions for user: Not Applicable
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not Applicable

Note: For surface shipments within the United States: Not regulated.

SECTION 15 - REGULATORY DATA

15.1. Safety, health and environment regulations/legislation specific for the substance or mixture:

U.S. federal and state regulations/legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ): Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313: None Known

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause cancer, birth defects, or other reproductive hazards:

Epichlorohydrin	106-89-8	Cancer; Male Reproductive Toxicity
Phenyglycidyl ether	122-60-1	Cancer
Bisphenol A	80-05-7	Female Reproductive Toxicity

Canada regulations/legislation:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canadian Workplace Hazardous Material Information System (WHMIS) classification: D2B

Canadian Ingredient Disclosure List:

None known to be present or none in reportable amounts

Mexico regulations/legislation:

This SDS contains the information required by NOM-018-STPS-2000 Workplace Hazardous Chemical Substances Communication and Identification Standard.

Europe REACH (EC) 1907/2006: Applicable components are pre-registered, exempt or otherwise compliant.

EU Authorizations and/or restrictions on use: Not Applicable

Other EU information: No Additional Information

National regulations: No Additional Information

Chemical inventories:

Regulation Status

European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ELINCS):	N
U.S. Toxic Substances Control Act (TSCA):	Y
Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

Chemical inventory notes: Monomers are listed: European Union EINECS.

15.2. Chemical safety assessment:

SARA Hazard Categories (311/312):

Immediate (Acute) Health Hazard and Delayed (Chronic) Health Hazard

Toxic Substances Control Act (TSCA) Inventory Status:

Some or all of this product's components are listed by TSCA Inventory of Chemical Substances.

SECTION 16 – OTHER INFORMATION

Explanation of Labeling Requirements, Safety Phrases and Risk Phrases, Abbreviations

Xi	Irritant
N	Dangerous for the environment
C	Corrosive
S15:	Keep away from heat
S24/25:	Avoid contact with skin and eyes.
S27/28:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
S37/39:	Wear suitable gloves and eye/face protection.
S51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22:	Harmful if swallowed.
R36/37/38:	Irritating to eyes, respiratory system and skin.
R43:	May cause sensitization by skin contact.
ACGIH:	American Conference of Governmental Industrial Hygienists
ATE:	Acute Toxicity Estimate
EU OELV:	European Union Occupational Exposure Limit Value
EU IOELV:	European Union Indicative Occupational Exposure Limit Value
N/A:	Not Applicable
N/E:	None Established
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average (exposure for 8-hour workday)

Disclaimer of Liability:

The information in this MSDS was obtained from supplier and government resources, which we believe are reliable, however, the information is provided without any warranty, expressed or implied regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS may not be applicable. Users should make their own investigations to determine the suitability of the information or product for their particular purpose.

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

Revisions:

June 27, 2003:	Revised Section 14 & 15 Revised disclaimer
June 1, 2015:	Revised format and updated information for GHS/SDS format
Aug 25, 2017:	Updated California Prop 65 Information
April 30, 2021	Revised pH information