

# Safety Data Sheet



## 1. Product and Company Identification

Product Name: **EpoPro® 103B**  
Material Uses: Adhesive & Encapsulating Hardener  
(M)SDS#: 103B-20200702  
Validation Date: July-02-2020  
Supplier/Manufacturer: Specialty Polymers & Services, Inc. (SP&S, Inc.)  
27822 Fremont Court  
Valencia, California (CA) 91355, U.S.A.  
Non-emergency phone number: (661) 294-1790 (7AM – 5PM PST)  
E-mail: msds@spolymers.com

In case of emergency: Chemtrec (800) 424-9300 or (703) 527-3887

## 2. Hazards Identification

### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin corrosion/irritation:	Category 1B, H314	Eye damage/irritation:	Category 1, H318
Skin sensitization:	Category 1B, H317	Aquatic toxicity, Chronic:	Category 1, H412

### GHS LABEL ELEMENTS:

#### HAZARD SYMBOLS:



**SIGNAL WORDS:** DANGER!

#### HAZARD STATEMENTS:

H314 Causes severe skin burns and eye damage.	H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.	H412 Harmful to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS:

**PREVENTION:** P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, clothing, and eye/face protection.

**RESPONSE:** P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical attention.  
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER and/or doctor.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER and/or doctor.  
P391 Collect spillage.

**STORAGE:** P405 Store locked up.

**DISPOSAL:** P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

See toxicological information (section 11)

General Information: Read entire MSDS for a more thorough evaluation of the hazards

### 3. Composition / Information on Ingredients

Name	CAS Number	%
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.-hydro.-omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	72244-98-5	75 – 95
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	5 – 15
bis(dimethylamino)methylphenol	71074-89-0	< 2

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

### 4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
Skin Contact:	In case of contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get immediate medical attention, as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Inhalation:	Move exposed person to fresh air. Call a physician if symptoms develop or persist. IF THERE ARE ADVERSE REACTIONS, CONTACT A PHYSICIAN IMMEDIATELY. If not breathing, give artificial respiration or oxygen. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. Loosen tight clothing such as a collar, tie, belt, or waistband. Get immediate medical attention.
Ingestion:	Wash out mouth with water. If swallowed dilute by giving two (2) glasses water to drink. Do not induce vomiting until direct to do so by medical personnel. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Keep victim under observation. Symptoms may be delayed. Call poison control center if large quantities were ingested.

### 5. Fire-Fighting Measures

Flash point:	>110°C (230°F) closed cup
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxide, other oxides, ammonia, nitric acid, hydrogen sulfide, sulfur dioxide, sulfur trioxide, and low molecular weight hydrocarbons. Fire may produce irritating, corrosive and/or toxic gases. Under certain conditions in case of fire other hazardous combustion products may be generated. Containers may explode when heated; explosive vapor hazards may exist indoors or in sewers. Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Extinguishing Media:	Carbon dioxide, foam, dry chemical, water spray as suitable for the surrounding fire. Do not use high volume water jet.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the fire. No actions shall be taken involving any personal risk or without suitable training. Use of water may result in the formation of very toxic aqueous solutions.
Special Protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Do not allow run-off from firefighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 6. Accidental Release Measures

Personal Precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering area. Do not
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touch or walk through spilled material. Avoid breathing vapor or mist and provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Avoid dispersal of spilled material and runoff that leads to contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods of Clean Up: Stop leak if without risk. Remove all sources of ignition. Move containers from spill area. Approach spill from up wind if possible. Prevent spill from entering sewers, rivers and other water courses, basements, or confined areas. Wash into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Dispose of only using a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information.

**7. Handling and Storage**

Handling: Wear appropriate personal protective equipment (see Section 8) when handling. Avoid exposure – obtain special instructions before use. Avoid breathing mists/vapors. Avoid contact with skin and eyes. Eating, drinking, and smoking should be prohibited in areas where chemicals are handled, stored, or processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in processes where this material is used. Keep in the original container or a suitable alternate made from a compatible material. Keep all containers tightly closed when not in use. Empty containers retain product residue and should be disposed of properly. Do not reuse empty containers for other purposes or to hold other materials.

Storage: Store in accordance with local regulations. Store in original containers, protect from direct sunlight and keep in a dry, cool, well ventilated areas, fire resistant area away from sources of ignition and incompatible materials. Keep away from incompatible materials (see Section 10) and food and drink. Do not store near resinous materials with epoxy functionality. Keep all containers tightly closed when not in use and tightly re-seal after use. Keep container upright to prevent leakage. Observe label precautions. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Electrical installations / working materials must comply with the technological safety standards.

**8. Exposure Controls / Personal Protection**

Recommended Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace, atmospheric, or biological monitoring may be required to determine the effectiveness of the ventilation system or other control measures and/or to determine whether it is necessary to use respiratory protective equipment. Consider European Standard EN 689 or similar industry or governmental guidelines for appropriate methods for the assessment of exposure by inhalation to chemical agents and/or hazardous substances.

Engineering measures: No special ventilation requirements are necessary for this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below the recommended or statutory limits.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling any chemical products, before eating, smoking, and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protection**

Respiratory: A respiratory protection program in compliance with 29CFR1910.134, or other applicable regulatory standard must be followed whenever exposure limits may be exceeded. If engineering controls are not feasible, or if inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Wear neoprene, nitrile rubber, butyl rubber or other suitable impervious gloves; consider European Standard EN374 or similar industry or governmental guidelines. Consider the parameters specified by the glove manufacture and check gloves during use to ensure they are retaining their protective

properties. Gloves selected must have a breakthrough rating appropriate for the work shift. If a risk assessment indicates that it is necessary, gloves should always be worn when handling chemical products.

- Eyes:** When a risk assessment indicates, safety eyewear complying with an approved standard, such as OSHA Standard 29CFR1910.133 or European Standard EN166, should be used to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, at a minimum use chemical splash goggles. If significant splash hazard may occur, consider using a full-face shield.
- Skin:** Personal Protective equipment for the body should be selected based on the task being performed and the risks involved. Typical protective equipment includes non-absorbent lab coats, disposable protective sleeves, coats, or whole-body suits. Consider CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Consider seeing a safety specialist to determine the appropriate level of protection for your task.
- Environmental Exposure Controls:** Emissions from ventilation or work processes should be checked to ensure they comply with the requirements of environmental regulations. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and Chemical Properties

Appearance:	Clear to light yellow liquid	Odor	Slight, ammoniacal
Boiling Point:	Not determined	Freezing Point:	Not determined
Flash Point:	>110°C (230°F) closed cup	pH	Not determined
Auto-ignition Temperature:	Not determined		
Vapor Pressure:	Not determined	Water Solubility:	Partially Soluble
Specific Gravity:	Not determined	Vapor Density:	Not determined
Evaporation Rate:	Not determined	VOC:	< 20 g/l (estimated)
Viscosity:	~14,000 cP		

### 10. Stability and Reactivity

- Chemical Stability:** This product is stable, under normal conditions of storage and use, hazardous reactions will not occur.
- Hazardous Polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur. Mixtures with strongly acidic and strongly alkaline materials may produce an exothermic reaction.
- Conditions to Avoid:** High temperatures, sources of ignition, and exposure to oxidizing agents, reducing agents, bases, acids, and bulk epoxy resins.
- Hazardous Decomposition:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxide, other oxides, ammonia, nitric acid, hydrogen sulfide, sulfur dioxide, sulfur trioxide, and low molecular weight hydrocarbons. Fire may produce irritating, corrosive and/or toxic gases. Under certain conditions in case of fire other hazardous combustion products may be generated. Containers may explode when heated; explosive vapor hazards may exist indoors or in sewers. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

### 11. Toxicological Information

#### Acute Toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.-hydro.-omega.-hydroxy- ether with 2,2-bis(hydroxymethyl)- 1,3-propanediol (4:1), 2-hydroxy-3- mercaptopropyl ether	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rabbit	> 10,200 mg/kg bw/day
	OECD Test Guideline 401	LD50 Oral	Rat	2,600 mg/kg bw/day
	-	LC50 Inhalation	Rat	> 0.1 mg/l Air
	OECD Test Guideline 408	NOAEL Oral	Rat	75 mg/kg bw/day
2,4,6- tris(dimethylaminomethyl)phenol	OECD Test Guideline 401	LD50 Oral	Rat – Male & Female	2,169 mg/kg
-	-	ATE Dermal	-	>5,000 mg/kg

#### Irritation / Corrosion

Product/Ingredient Name	Test	Species	Result
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.-hydro.-omega.-hydroxy- ether with 2,2-bis(hydroxymethyl)- 1,3-propanediol (4:1), 2-hydroxy-3- mercaptopropyl ether	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin – Not irritating
	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes – Not irritating
2,4,6- tris(dimethylaminomethyl)phenol	-	Rabbit	Skin – Corrosive
bis(dimethylamino)methyl]phenol	-	Rabbit	Eyes – Corrosive
bis(dimethylamino)methyl]phenol	-	Rabbit	Eyes – Corrosive

#### Sensitizer

Product/Ingredient Name	Test	Species	Result
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.-hydro.-omega.-hydroxy- ether with 2,2-bis(hydroxymethyl)- 1,3-propanediol (4:1), 2-hydroxy-3- mercaptopropyl ether	OECD Test Guideline 429	Skin / Mouse	Skin – Sensitizing
	-	-	Respiratory – Not sensitizing
2,4,6- tris(dimethylaminomethyl)phenol	-	Probability or evidence of low to moderate skin sensitization rate in humans	

#### Mutagenicity

Product/Ingredient Name	Test	Result
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.-hydro.-omega.-hydroxy- ether with 2,2-bis(hydroxymethyl)- 1,3-propanediol (4:1), 2-hydroxy-3- mercaptopropyl ether	OECD Test Guideline 471; Ames test	Negative
	OECD Test Guideline 473; Chromosome aberration	Negative
	OECD Test Guideline 476; Micronucleus	Negative
2,4,6- tris(dimethylaminomethyl)phenol	OECD Guideline 471 – invitro, metabolic activation with and without, 5000 µg/plate	Negative
	OECD Guideline 473 – invitro, metabolic activation with and without, 2500 µg/plate	Negative
	OECD Guideline 476 – invitro, metabolic activation with and without	Negative

Conclusion/ Summary: the weight of evidence does not support classification as a germ cell mutagen.

#### Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP or OSHA.

#### Reproductive Toxicity

Product/Ingredient Name	Test	Species	Maternal Toxicity	Fertility	Developmental Effects
2,4,6- tris(dimethylaminomethyl)phenol	OECD Guideline 422	Rat	No significant adverse effects were reported		

#### Teratogenicity

Product/Ingredient Name	Test	Species	Results
No data available			

#### Potential Acute Health Effects

**Inhalation:** May cause respiratory tract irritation; irritating to the lungs; may cause cough, shortness of breath, headache, nausea, vomiting.

**Ingestion:** May cause gastrointestinal irritation, nausea and vomiting; may cause chemical burns to stomach, throat, mouth and nose.

**Skin Contact:** Corrosive; May cause severe burns, blistering and skin damage. Vapors may cause skin irritation.

**Eye Contact:** Causes burns; risk of serious damage to the eyes; liquid or vapors may cause irritation.

#### Potential Chronic Health Effects

Product/Ingredient Name	Test	Endpoint	Species	Results
2,4,6- tris(dimethylaminomethyl)phenol	Subacute toxicity; 7 days; 1032 hours	Sub-chronic NOAEL	Rat – male, female	15 mg/kg

**General:** Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels

**Target Organs:** No known significant effects or critical hazards

**Carcinogenicity:** No known significant effects or critical hazards

**Mutagenicity:** No known significant effects or critical hazards

**Teratogenicity:** No known significant effects or critical hazards

**Developmental Effects:** No known significant effects or critical hazards

**Fertility Effects:** No known significant effects or critical hazards

## **12. Ecological Information**

**Environmental Effects:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.

#### Aquatic Ecotoxicity

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
Poly[oxy(methyl-1,2-ethanediyl)], Alpha.- hydro.-omega.-hydroxy-, ether with 2,2-	-	Acute LC50	96 hours	Fish	87 mg/l
	-	Acute EC50	48 hours	Daphnia	12 mg/l

bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	-	Acute EC50	72 hours	Algae	> 733 mg/l
	-	Acute EC50	-	Bacteria	1000 mg/l
	-	NOEC	21 days	Daphnia	3.5 mg/l
2,4,6-tris(dimethylaminomethyl)phenol	-	Acute EC50	72 hours Static	Algae	15 mg/L
	-	Acute LC50	96 hours Static	Fish	175 mg/l
	OECD Test Guideline 201	Acute ErC50	72 hours Static	Algae	84 mg/l
	OECD Test Guideline 201	NOEC	72 hours Static	Algae	6.25 mg/l
	-	Acute LC50	96 hours Static	Daphnia	718 mg/l

#### Persistence and Degradability

Product/Ingredient Name	Test	Period	Result
2,4,6-tris(dimethylaminomethyl)phenol	OECD Test Guideline 301D	28 days	4%

Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
2,4,6-tris(dimethylaminomethyl)phenol	-	-	Not readily biodegradable

#### Bioaccumulative potential

Product/Ingredient Name	Log P <sub>ow</sub>	BCF	Potential
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	-

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Other information: BOD5: Not determined      COD: Not determined      TOC: Not determined

### **13. Disposal Consideration**

**Waste Disposal Method:** Disposal of this products, solutions, and by-products should at all times comply with the requirements of environmental and waste disposal legislation and any regional or local authority requirements. Dispose of surplus, non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed on untreated to the sewer system unless this is complaint with all applicable laws and regulations. Incineration by an approved and licensed contractor is the most common disposal method. Packaging materials that and absorbents containing the product can typically be landfilled or incinerated. Contact local authorities to determine the proper means of disposal in your area.

### **14. Transport Information**

DOT (US) Classification: Not regulated for transportation purposes under 49CFR in non-bulk (less than 450L) when transported by motor vehicle, rail car, or aircraft.

TDG (Canadian) Classification: Not regulated for transportation purposes when transported by road or rail.

IATA – small package sizes: Container sizes with net contents of ≤ 5 L (for liquids) or ≤ 5 kg (for solids) are not subject to dangerous good regulations per special provision A197, provided that the packagings meet the general good quality packagings provisions of 5.0.2.4.1, 5.0.2.6.1.1., and 5.0.2.8. If special revision A197 is not applicable due to operator, state, or other variations then the same sizes can be shipped as Limited Quantity using packaging instruction Y964 as long as the shipment is complaint with all applicable operator variations. Environmentally hazardous substances markings and UN boxes are not required when shipping using the Limited Quantity exemption and packaging instruction Y964.

**IATA ID Number:** UN3082      **Label:** Marine Pollutant  
**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Mercaptan-terminated polymer)  
**Hazard Class:** 9      **Packing Group:** PGIII

### **15. REGULATORY INFORMATION**

#### **US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This product is a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**SARA Title III Section 304 - CERCLA:** This product does not contain chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List).

**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain any toxic chemicals for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).

**TSCA Section 8(b) - Inventory Status:** All chemical(s) comprising this product are listed on the TSCA inventory.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemicals which are subject to Section 12(b) export notification.

**State Regulations:**

**California Proposition 65:** This product does not expose you to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

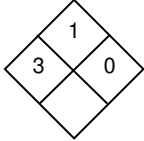
**International Regulations:**

**WHMIS:** Class D-2B: Material causing other toxic effects  
Class E: Corrosive material

**International Lists:**

Australia Inventory (AICS):	all components are listed or exempt	Japan Inventory (ENCS):	all components are listed or exempt
Canadian Inventory (DSL):	all components are listed or exempt	Korea Inventory (KECI):	all components are listed or exempt
China Inventory (IECSC):	all components are listed or exempt	Taiwan (TCSI):	all components are listed or exempt
Philippines Inventory (PICCS):	all components are listed or exempt		

**16. OTHER INFORMATION**

Hazardous Material Information System (HMIS) - USA		National Fire Protection Association (USA):	
Health	3		
Flammability	1		
Physical Hazards	0		
Personal Protection	C*		

\*suggested minimum personal protection equipment. End user must determine appropriateness of these suggestions for their applications and usage conditions.

**Reason Issued:** update

**Prepared By:** Preston White

**Approved By:** Chris Meyer Title: Vice President

**NOTICE TO READER:** While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF PRODUCTS FOR THE USER'S PARTICULAR PURPOSE(S).

THIS PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.