

# MATERIAL SAFETY DATA SHEET

**Environmental Protective Coatings, Inc.** 2035 Regency Rd. Suite 5 Lexington, KY 40503  
PH: (800) 928-COAT Fax: (859) 278-4973 Mail: homerhartepc@aol.com

24-Hour Chemical Emergency Phone Number 800-424-9300

## SECTION 1: PRODUCT IDENTIFICATION

Date Prepared October 28, 2002

Product: **PolyFlo 250 Pure Polyurea**  
Code: **Component "B"**

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	CAS NUMBER	%WT.	ACGIH TLV (a)	OSHA PEL
* Glyceryl poly(oxypropylene) triamine	64852-2-8	100	NE	NE

\*this product is considered hazardous according to OSHA 1910.1200  
Ingredients not precisely identified are proprietary or non-hazardous.  
NE = not established; NR = not required; C = ceiling

## SECTION 3: PHYSICAL AND CHEMICAL DATA

<b>Boiling Range:</b>	not determined	<b>Vapor Pressure:</b>	not determined
<b>Melting/Freeze Point:</b>	not determined	<b>Odor:</b>	not determined
<b>Vapor Density:</b>	<.1 (air = 1)	<b>Viscosity:</b>	mobile liquid
<b>Appearance:</b>	viscous liquid	<b>Specific Gravity:</b>	1.00-1.08 approx.
<b>Solubility In Water:</b>	<.1 %		

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

**Flash point:** 212°C (415°F) (PMCC)  
**Flammable Limits %:** **Lower Explosive Limit:** not determined  
**Upper Explosive Limit:** not determined

**Unusual Fire and Explosion Hazards:** None

**Recommended Fire Fighting 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. Fire fighters should 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.

**Threshold Limit Value:** Not established

## SECTION 5: HEALTH HAZARD DATA

### Effects of Overexposure:

**Acute Inhalation:** Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

**Skin:** Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact: see other effects, below and Section 11 for information regarding potential long term effects.

**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.

**Swallowing:** May cause abdominal discomfort, nausea, and diarrhea.

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

**Chronic** No adverse effects have been documented in humans as a result of chronic exposure. There is no evidence that this product aggravates an existing medical condition.

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

## SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

- Ingestion:** If patient is conscious and can swallow, give two glasses of water (16 ounces). Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.
- Inhalation:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.
- Eye Contact:** Immediate flush with copious quantities of clean running 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 Contact:** Remove contaminated clothing and shoes. Wash effected areas with soap and water. Get medical attention if skin irritation develops or persists.

## SECTION 7: REACTIVITY DATA

- Incompatibility:** Reacts violently with acids.
- Hazardous Polymerization:** Does not occur.
- Hazardous Decomposition Products:** Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited supply.

## SECTION 8: SPILL OR LEAK CLEAN-UP PROCEDURES

### Steps to be taken in case material is released or spilled:

Clean-up crews should wear protective clothing, gloves, boots, and goggles. Respiratory protection is also recommended. Absorb material with saw dust, dirt, or other absorbent material. Pour decontamination solution of concentrated ammonia (5%), detergent (2%), and water (93%) over the spill area, allow to stand for at least 10 minutes, then sweep or shovel into open top containers. Remove containers to a safe place, cover loosely, and allow to stand for 2 days.

**Waste Disposal Method:** After allowing material to harden. Dispose of, by any standard method of disposal in accordance with good industrial practice and in manner that complies with federal, state, and local environmental protection regulations. This product has been evaluated for RCRA characteristics and does not meet 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.

**Accidental Release Measure:** Ventilate area. Avoid 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 9: SPECIAL PROTECTION INFORMATION

- Respiratory Protection:** Airborne concentrations should be kept to lowest level 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 is recommended if generating vapor, dust or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.
- Skin Protection:** Wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.
- Eye Protection:** Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.

## SECTION 10: SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storage:** Minimum feasible handling temperatures should be maintained. Eyewash should be available nearby when this product is handled or used.

**Storage Temperatures:** The ideal storage temperature is 65°-95°F. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100°F, a nitrogen atmosphere is recommended.

#### SECTION 11: SHIPPING DATA

**Proper Shipping Name:** Caustic Alkali Liquids NOS (polyoxypropylene diamine)  
**D.O.T. Hazard Classification:** 8  
**UN Number:** UN 1719  
**Packaging Group:** PG III

#### SECTION 12: ABBREVIATIONS USED

<b>ACGIH</b>	-	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	-	Chemical Abstracts Service
<b>IARC</b>	-	International Agency for Research on Cancer
<b>LEL</b>	-	Lower Explosive Limits
<b>MSHA</b>	-	Mines Safety and Health Administration
<b>NA</b>	-	Not Applicable
<b>NE</b>	-	Not Established
<b>NIOSH</b>	-	National Institute of Occupational Safety and Health
<b>OSHA</b>	-	Occupational Safety and Health Administration
<b>PEL</b>	-	Permissible Exposure Level
<b>PPM</b>	-	Parts per Million
<b>TCC/PM</b>	-	Tag – Closed Cap / Pensky – Martin
<b>TLV</b>	-	Threshold Limit Values
<b>UEL</b>	-	Upper Explosive Limits

#### DISCLAIMER SECTION

Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, No guaranty, warranty, or representation is made, intended, or implied as to the correctness, or sufficiency of any information, or as to the merchantability or suitability or fitness of any chemical compounds or other products for any particular use or purpose, or that any chemical compounds or other products or the use thereof are not subject to a claim by a third party for infringement of any patent or other intellectual property right. The user should conduct sufficient investigation to establish the suitability of any product for its intended use. Liability of EPC, Inc. for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users. EPC, Inc. further assumes no responsibility for personal injury or property damage to customers, users, or third parties caused by this material. Such customers or users assume all risks associated with the use of this material.