



MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: Poly S 2000 EA
CHEMICAL FAMILY: Polyester Polyol.

II. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT NAME/ CAS NUMBER	%	EXPOSURE LIMITS OSHA PEL	ACGIH TLV
None			

This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

III. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE (physical form, color, texture, etc.)	Colorless-Pale yellow waxy solid at 77°F.
ODOR:	Slight.
MELTING POINT:	Not Established.
FREEZE POINT:	Not Established.
BOILING POINT:	Not Established.
VAPOR PRESSURE (mm Hg):	Not Established.
VAPOR DENSITY (Air = 1)	Not Established. (Air=1)
SPECIFIC GRAVITY (H ₂ O = 1):	1.28 @ 77 F (25C)
SOLUBILITY IN WATER:	Slight (less than 5% soluble)
BULK DENSITY:	10.60 lbs/gal

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): 580.0° F (304.4° C) Pensky-Martens Closed Cup

FLAMMABLE LIMITS:

LEL (Lower Explosion Limit)= Not available.

UEL (Upper Explosion Limit)= Not available.

EXTINGUISHING MEDIA: Water; Carbon Dioxide; Dry Chemical; Foam

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire-fighters. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Material supports combustion. During a fire, irritating and toxic gases such as carbon monoxide may be generated by thermal decomposition or combustion. Do not spray fire directly. A solid stream of water directed into the hot burning liquid could cause frothing.

V. REACTIVITY DATA

STABILITY: This is a stable material.

CONDITIONS TO AVOID (if unstable): Not applicable.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials, isocyanates, and acids.

HAZARDOUS DECOMPOSITION OF BYPRODUCTS: By fire- CO₂, CO and other aliphatic fragments which have not been determined.

HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID (if polymerization may occur): Not applicable.

VI. HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION? Yes.
SKIN CONTACT? Yes.
EYE CONTACT? Yes.
INGESTION? Yes.

ACUTE HEALTH HAZARDS:

INHALATION- This product is considered to be low in volatility at room temperature and therefore not likely to present an inhalation hazard under normal working conditions using good industrial hygiene practices.

SKIN- This product under normal working conditions is expected to be non-irritating to the skin. Molten material will cause severe burns and injury to unprotected skin.

EYE- Direct eye contact may cause minor irritation but no corneal injury. If symptoms occur, they may include tearing and slight reddening of the eye.

INGESTION- This product under normal working conditions is expected to be only very slightly toxic by ingestion.

CHRONIC HEALTH HAZARDS: No information was found concerning any adverse chronic health effects from overexposure to this product. However, it is reasonable to assume that upon repeated or prolonged contact, slight skin irritation may be possible. Repeated or prolonged contact may lead to a mild case of dermatitis or other allergic reaction.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.
IARC (International Agency for Research on Cancer)? No.
OSHA REGULATED? No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION- Remove to fresh air immediately if breathing becomes difficult. If patient is not breathing, give artificial respiration. If breathing is difficult administer oxygen (qualified medical personnel only). Call a physician immediately.

SKIN- Remove all contaminated clothing and shoes. Wash skin thoroughly with soap and water. Clean shoes before wearing again. Wash clothing before wearing again. If irritation should develop or persist contact a physician. Treat thermal burns symptomatically.

EYE- Flush with large amounts of water for at least 15 minutes, use fingers to hold eyelids open to insure that the eyes are being irrigated. Consult a physician if ill effects or irritation occurs.

INGESTION- If swallowed, give two glasses of water for dilution. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON. Should vomiting occur keep patient's head lower than hip level to prevent aspiration of fluid into the lungs.

VII. PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- Stop the spill or leak.
- Contain or dike the spilled product.
- Evacuate spill area and keep nonessential or unprotected personnel away.
- Equip clean-up personnel with necessary personal protective equipment (see Section VIII-Control Measures).
- Prevent spilled material from entering soil, sewers, surface water, ground water, streams, or any other bodies of water.
- Retain any contaminated water for removal and treatment.
- Absorb small spills with inert material (e.g. dry sand, earth, chemical absorbent, etc.).
- Scoop up absorbed material and absorbent and place in an approved chemical waste container.
- Large spills may be taken up with pump or vacuum & then finished off with dry absorbent.

- Wash spill area with hot water.
- Report spill per regulatory requirements.

WASTE DISPOSAL METHOD: Incinerate &/or dispose of in accordance with applicable federal, state, and local regulations.

EMPTY CONTAINER PRECAUTIONS: Empty containers retain product residue (liquid and/or vapor) and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with applicable federal, state, and local regulations.

STORAGE TEMP (MIN/MAX): Ambient / 100° F (38° C)

SHELF LIFE: 12 months.

SPECIAL SENSITIVITY: Material is hygroscopic and may absorb small amounts of atmospheric moisture.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Containers should be tightly closed to prevent contamination with foreign materials and moisture. Material is not considered hazardous under normal handling operations, but reasonable care should be exercised. Avoid skin and eye contact. Avoid breathing vapors if generated. If contamination with isocyanates is suspected, do not reseal containers. Employee education and training in safe handling of this product are required under the OSHA Hazard Communication Standard.

OTHER PRECAUTIONS: None.

VIII. CONTROL MEASURES (INCLUDING PERSONAL PROTECTION)

VENTILATION: None required during handling but necessary during processing.

RESPIRATORY PROTECTION: The specific respirator selected when working with this product must be based on the contamination levels found in the workplace and the contamination levels must not exceed the working limits of the respirator. In minimum concentrations an air purifying respirator equipped with organic vapor cartridge if vapors are detected or are irritating.

SKIN PROTECTION: Chemically resistant gloves recommended. When working with this material in the molten (hot) state thermal resistant gloves and clothing should be worn to protect against burns.

EYE PROTECTION: Goggles or safety glasses. Contact lenses should not be worn when working with this product, especially when working with the material in the molten or hot state.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety showers and eyewash stations should be readily available and in working condition.

WORK/HYGIENIC PRACTICES: Wash hands, forearms, and face thoroughly after handling product and before eating, smoking, using lavatory, and at the end of the day. Educate and train employees in safe use of product. Follow all label instructions.

IX. OTHER INFORMATION

OSHA HAZARD COMMUNICATION STATUS: This product does not contain hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US INVENTORY (TSCA): The ingredients of this product are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), TITLE III:

Section 302 - Extremely Hazardous Substances:

None.

Section 311/312 – Hazard Categories:

Non-hazardous under Section 311/312.

Section 313 - Toxic Chemical Notification & Release Reporting:

None.

This information must be included in all MSDSs that are copied and distributed for this material.

HMIS RATINGS:

Health – 0 Flammability – 1 Reactivity – 0

(0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe)

PPE - B (safety glasses + gloves assuming normal working conditions with adequate ventilation. See Section VIII-Control Measures (Including Personal Protection) for more information.

X. APPROVALS

PREPARED BY: Nikki Clayton

APPROVED BY: Steve Longacre

REVISED BY: ITWC compliance dept. (lrt)

APPROVED BY: ITWC Director of Technical Service. (sf)

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