



PolyScience SAFETY DATA SHEET

Section 1: Identification

Product Name: Polycool Mix-25 Product Code:H005415

MANUFACTURER: Haviland Products Company 421 Ann Street NW Grand Rapids, MI 49504 (616) 361-6691

SAFETY DATA SHEET Part # 004-300060

Emergency Phone CHEMTREC (800) 424-9300 CHEMTREC International (703) 527-3887

DISTRIBUTOR: PolyScience 6600 W. Touhy Ave. Niles, IL 60714 (847) 647-0611

Product Use: NA Not recommended for: NA

Section 2: Hazard(s) Identification

GHS Ratings:

Table with 3 columns: Hazard description, GHS Rating, and Hazard Statement. Includes Eye corrosive (2B), Organ toxin single exposure (2), and Organ toxin repeated exposure (2).

GHS Hazards

Table with 2 columns: Hazard Code and Description. Includes H320 (Causes eye irritation), H371 (May cause damage to organs), and H373 (May cause damage to organs through prolonged or repeated exposure).

GHS Precautions

Table with 2 columns: Precaution Code and Description. Includes P260 (Do not breathe dust/fume/gas/mist/vapors/spray), P264 (Wash face, hands, and any exposed skin thoroughly after handling), P270 (Do not eat, drink or smoke when using this product), P314 (Get Medical advice/attention if you feel unwell), P305+P351+P338 (IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing), P309+P311 (IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician), P337+P313 (If eye irritation persists get medical advice/attention), and P405 (Store locked up).

**Warning****Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethylene glycol 107-21-1 40 to 50%		100 mg/m3 Ceiling (aerosol only)	

**Section 4: First-aid Measures****Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

Flash Point: 111 C (232 F)

LEL:

UEL:

**Extinguishing Media**

Carbon Dioxide, Dry Chemical, Foam

**Specific Hazards Arising from the Chemical**

Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

Closed container may explode under extreme heat.

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures****Spill and Leak Procedures**

Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Recover by pumping (use an explosion proof or hand pump).

### Section 7: Handling and Storage

#### Handling Procedures

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

#### Storage Requirements

Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

### Section 8: Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethylene glycol 107-21-1		100 mg/m <sup>3</sup> Ceiling (aerosol only)	

**ENGINEERING CONTROLS:** Provide ventilation sufficient to maintain exposure below the recommended limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

### Section 9: Physical and Chemical Properties

<b>Appearance:</b> Clear light yellow to water white liquid	<b>Odor:</b> Unknown
<b>Vapor Pressure:</b> Unknown	<b>Odor threshold:</b> Unknown
<b>Vapor Density:</b> Unknown	<b>pH:</b> 6.5-8.5
<b>Density:</b> Unknown	<b>Melting point:</b> Unknown
<b>Freezing point:</b> Unknown	<b>Solubility:</b> Complete
<b>Boiling range:</b> Unknown	<b>Flash point:</b> Unknown
<b>Evaporation rate:</b> Unknown	<b>Flammability:</b> Unknown
<b>Explosive Limits:</b> Unknown	<b>Specific Gravity:</b> 1.07
<b>Autoignition temperature:</b> Unknown	<b>Decomposition temperature:</b> Unknown
<b>Viscosity:</b> Unknown	<b>Grams VOC less water:</b> Unknown

### Section 10: Stability and Reactivity

#### Chemical Stability:

STABLE

#### Incompatible Materials

Prevent contact with strong oxidizing agents. Keep away from strong bases. Keep away from acids. Avoid contact with permanganates, peroxides, dichromates, reactive sodium compounds, sulfur compounds and nitrates.

**Conditions to Avoid**

Avoid impact, friction, heat, sparks, flame and source of ignition.

**Hazardous Decomposition Products**

combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

**Component Toxicity**

**Routes of Entry:**

- Inhalation
- Ingestion
- Skin contact
- Eye contact

**Target Organs**

<b>Eyes</b>	<b>Central Nervous System</b>	<b>Skin</b>	<b>Respiratory System</b>
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**Effects of Overexposure**

**CHRONIC HAZARDS:** May cause target organ damage. Overexposure may cause kidney damage. A component of this product is a potential hazard to the fetus. May cause liver disorder (e.g., edema, proteinuria) and damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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**Section 12: Ecological Information**

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

**Section 15: Regulatory Information**

**Section 16: Other Information**

**Disclaimer**

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.