

## 1. Identification

**Product identifier** **CARPET SPOTTER GEL**

### Other means of identification

**SDS number** 545N-75A

**Product code** HIL00909

**Recommended use** Carpet Cleaner

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

#### Manufacturer

**Company name** HILLYARD INDUSTRIES

**Address** 302 North Fourth St.  
St. Joseph, MO 64501

**Contact person** Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

**Fax** (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure, or accident involving chemicals.)

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 4

**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

### Precautionary statement

**Prevention** Avoid release to the environment.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** Not applicable.

## 3. Composition/information on ingredients

### Mixtures

#### Hazardous components

| Chemical name                              | CAS number | %        |
|--------------------------------------------|------------|----------|
| PNP Glycol Ether                           | 100-02-7   | 3 - < 5  |
| Alcohols (C12-15 In, Saturated) Ethoxylate | 68131-39-5 | 0.5      |
| Other components below reportable levels   |            | 90 - 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

|                                                                               |                                                                                                                  |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | Move to fresh air. Call a physician if symptoms develop or persist.                                              |
| <b>Skin contact</b>                                                           | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| <b>Eye contact</b>                                                            | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| <b>Ingestion</b>                                                              | Rinse mouth. Get medical attention if symptoms occur.                                                            |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.                                                         |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically.                                                   |
| <b>General information</b>                                                    | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|                                                                      |                                                                                               |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.                                         |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>                                          | No unusual fire or explosion hazards noted.                                                   |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                                                                                                                                                                                                                                    |
| <b>Methods and materials for containment and cleaning up</b>               | <p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>                                           | Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                     |

## 7. Handling and storage

|                                                                     |                                                                                                                                                                                      |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).                                                                      |

## 8. Exposure controls/personal protection

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits</b>                                          | No exposure limits noted for ingredient(s).                                                                                                                                                                                                                                                                                                                                                   |
| <b>Biological limit values</b>                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                                                                                                                                                                                                    |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Eye/face protection</b>                                                   | If contact is likely, safety glasses with side shields are recommended.                                                                                                                                                                                                                                                                                                                       |

|                                       |                                                                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin protection</b>                |                                                                                                                                                                                                                       |
| <b>Hand protection</b>                | For prolonged or repeated skin contact use suitable protective gloves.                                                                                                                                                |
| <b>Other</b>                          | Wear suitable protective clothing.                                                                                                                                                                                    |
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                             |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                         |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

|                                                     |                                                       |
|-----------------------------------------------------|-------------------------------------------------------|
| <b>Appearance</b>                                   | Opaque, hazy liquid                                   |
| <b>Physical state</b>                               | Liquid.                                               |
| <b>Form</b>                                         | Liquid.                                               |
| <b>Color</b>                                        | Opaque.                                               |
| <b>Odor</b>                                         | Non-objectionable                                     |
| <b>Odor threshold</b>                               | Not available                                         |
| <b>pH</b>                                           | 9.5 - 10.5 concentrate                                |
| <b>Melting point/freezing point</b>                 | Not applicable / Not available                        |
| <b>Initial boiling point and boiling range</b>      | 203 °F (95 °C)                                        |
| <b>Flash point</b>                                  | > 203.0 °F (> 95.0 °C) Tag Closed Cup None to boiling |
| <b>Evaporation rate</b>                             | < 1 (ethyl ether = 1)                                 |
| <b>Flammability (solid, gas)</b>                    | Not available.                                        |
| <b>Upper/lower flammability or explosive limits</b> |                                                       |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                        |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                        |
| <b>Vapor pressure</b>                               | 0 hPa estimated<br>17.4 mm Hg                         |
| <b>Vapor density</b>                                | 0.762 Air =1                                          |
| <b>Relative density</b>                             | 1.002 at 77°F                                         |
| <b>Solubility(ies)</b>                              |                                                       |
| <b>Solubility (water)</b>                           | 100 % Complete                                        |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available                                         |
| <b>Auto-ignition temperature</b>                    | Not available                                         |
| <b>Decomposition temperature</b>                    | Not available                                         |
| <b>Viscosity</b>                                    | Semi viscous                                          |
| <b>Other information</b>                            |                                                       |
| <b>Density</b>                                      | 8.37 lb/gal                                           |
| <b>Explosive limit</b>                              | Not available                                         |
| <b>Percent volatile</b>                             | > 98 %                                                |
| <b>VOC (Weight %)</b>                               | 3 %                                                   |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                |

## 11. Toxicological information

### Information on likely routes of exposure

|                   |                                                    |
|-------------------|----------------------------------------------------|
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.             |
| <b>Inhalation</b> | No adverse effects due to inhalation are expected. |

|                                                                                     |                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Skin contact</b>                                                                 | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>                                                                  | Direct contact with eyes may cause temporary irritation. |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Direct contact with eyes may cause temporary irritation. |

#### Information on toxicological effects

##### Acute toxicity

| Product                          | Species | Test Results               |
|----------------------------------|---------|----------------------------|
| CARPET SPOTTER GEL (CAS Mixture) |         |                            |
| <b>Acute</b>                     |         |                            |
| <i>Oral</i>                      |         |                            |
| LD50                             | Mouse   | 12394.416 mg/kg estimated  |
|                                  | Rat     | 14424.5918 mg/kg estimated |
| <i>Other</i>                     |         |                            |
| LD50                             | Mouse   | 2159.3831 mg/kg estimated  |
| Components                       | Species | Test Results               |

|                                 |       |                 |
|---------------------------------|-------|-----------------|
| PNP Glycol Ether (CAS 100-02-7) |       |                 |
| <b>Acute</b>                    |       |                 |
| <i>Oral</i>                     |       |                 |
| LD50                            | Mouse | 380 mg/kg       |
|                                 | Rat   | 450 - 850 mg/kg |
| <i>Other</i>                    |       |                 |
| LD50                            | Mouse | 75 mg/kg        |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life. Accumulation in aquatic organisms is expected. May cause long lasting harmful effects to aquatic life.

| Product                                                     | Species | Test Results                          |
|-------------------------------------------------------------|---------|---------------------------------------|
| CARPET SPOTTER GEL (CAS Mixture)                            |         |                                       |
| Crustacea                                                   | EC50    | Daphnia                               |
|                                                             |         | 65.9122 mg/l, 48 hours estimated      |
| Fish                                                        | LC50    | Fish                                  |
|                                                             |         | 144.303 mg/l, 96 hours estimated      |
| Components                                                  | Species | Test Results                          |
| Alcohols (C12-15 In, Saturated) Ethoxylate (CAS 68131-39-5) |         |                                       |
| <b>Aquatic</b>                                              |         |                                       |
| Crustacea                                                   | EC50    | Water flea (Ceriodaphnia dubia)       |
|                                                             |         | 0.37 - 0.43 mg/l, 48 hours            |
| Fish                                                        | LC50    | Channel catfish (Ictalurus punctatus) |
|                                                             |         | 1.04 - 1.39 mg/l, 96 hours            |

| Components                      |      | Species                    | Test Results              |
|---------------------------------|------|----------------------------|---------------------------|
| PNP Glycol Ether (CAS 100-02-7) |      |                            |                           |
| Aquatic                         |      |                            |                           |
| Crustacea                       | EC50 | Water flea (Daphnia magna) | 3.1 - 7.1 mg/l, 48 hours  |
| Fish                            | LC50 | Zebra danio (Danio rerio)  | 5.6 - 13.9 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

PNP Glycol Ether 1.91

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**US RCRA Hazardous Waste U List: Reference**

PNP Glycol Ether (CAS 100-02-7) U170

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**DOT**

Not regulated as dangerous goods.

### 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

PNP Glycol Ether (CAS 100-02-7) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name    | CAS number | % by wt. |
|------------------|------------|----------|
| PNP Glycol Ether | 100-02-7   | 3 - < 5  |

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

PNP Glycol Ether (CAS 100-02-7)

## US state regulations

### US. Massachusetts RTK - Substance List

PNP Glycol Ether (CAS 100-02-7)

### US. New Jersey Worker and Community Right-to-Know Act

PNP Glycol Ether (CAS 100-02-7) 500 LBS

### US. Pennsylvania RTK - Hazardous Substances

PNP Glycol Ether (CAS 100-02-7)

### US. Rhode Island RTK

PNP Glycol Ether (CAS 100-02-7)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|-----------------------------------------------|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|               |                                                    |
|---------------|----------------------------------------------------|
| Issue date    | 10-28-2014                                         |
| Version #     | 01                                                 |
| HMIS® ratings | Health: 1<br>Flammability: 0<br>Physical hazard: 0 |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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