

## 1. Identification

**Product identifier** RESTROOM CLEANER

**Other means of identification**

**SDS number** 545N-19A

**Product code** HIL00805

**Recommended use** Bathroom 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** Acute toxicity, oral Category 5

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

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

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** May be harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

**Precautionary statement**

**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Wash contaminated clothing before reuse.

**Storage** Store locked up.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements.

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

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                                 | Common name and synonyms | CAS number | %         |
|-----------------------------------------------|--------------------------|------------|-----------|
| PHOSPHORIC ACID                               |                          | 7664-38-2  | 10 - < 20 |
| 1-Butoxy-2-propanol                           |                          | 5131-66-8  | 5 - < 10  |
| Citric Acid                                   |                          | 77-92-9    | 5 - < 10  |
| Alcohols, C9-11, ethoxylated                  |                          | 68439-46-3 | 4.41      |
| Alcohols (C12-15 In, Saturated)<br>Ethoxylate |                          | 68131-39-5 | 3 - < 5   |
| Other components below reportable levels      |                          |            | 60 - < 70 |

\*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>                                                           | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.                                                                                 |
| <b>Eye contact</b>                                                            | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.                                                                                                              |
| <b>Ingestion</b>                                                              | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.                                                                                                                            |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.                                                                                              |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>                                                    | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.                                                                                                                                    |

### 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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Methods and materials for containment and cleaning up**

This product is miscible in water. Should not be released into the environment.

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 product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the 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. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

**Precautions for safe handling**

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                      | Type | Value   |
|---------------------------------|------|---------|
| PHOSPHORIC ACID (CAS 7664-38-2) | PEL  | 1 mg/m3 |

**US. ACGIH Threshold Limit Values**

| Components                      | Type | Value   |
|---------------------------------|------|---------|
| PHOSPHORIC ACID (CAS 7664-38-2) | STEL | 3 mg/m3 |
|                                 | TWA  | 1 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                      | Type | Value   |
|---------------------------------|------|---------|
| PHOSPHORIC ACID (CAS 7664-38-2) | STEL | 3 mg/m3 |
|                                 | TWA  | 1 mg/m3 |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

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. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Chemical goggles are recommended.

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other**

Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use uniforms or coveralls.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards**

None known.

**General hygiene considerations**

Keep away from food and drink. 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>                                   | Clear, pink liquid                         |
| <b>Physical state</b>                               | Liquid.                                    |
| <b>Form</b>                                         | Liquid.                                    |
| <b>Color</b>                                        | Pink.                                      |
| <b>Odor</b>                                         | Cherry odor                                |
| <b>Odor threshold</b>                               | Not available                              |
| <b>pH</b>                                           | 1 - 1.5                                    |
| <b>Melting point/freezing point</b>                 | Not applicable / Not available             |
| <b>Initial boiling point and boiling range</b>      | 208 °F (97.78 °C)                          |
| <b>Flash point</b>                                  | > 200.0 °F (> 93.3 °C) Tag Closed Cup      |
| <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>                               | 16.99 mm Hg                                |
| <b>Vapor density</b>                                | 1.32 Air =1                                |
| <b>Relative density</b>                             | 1.095 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>                                    | Not available                              |
| <b>Other information</b>                            |                                            |
| <b>Density</b>                                      | 9.12 lb/gal                                |
| <b>Percent volatile</b>                             | 69 - 71 %                                  |
| <b>VOC (Weight %)</b>                               | 0.47 % 1:20 Dilution<br>9.83 % Concentrate |

## 10. Stability and reactivity

|                                           |                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Reacts violently with strong alkaline substances. This product may react with reducing agents.                      |
| <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. Do not mix with other chemicals. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Bases. Reducing agents.                                                                                             |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                                      |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation to the respiratory system. Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | Causes severe skin burns.                                                            |
| <b>Eye contact</b>  | Causes serious eye damage.                                                           |
| <b>Ingestion</b>    | Causes digestive tract burns. May be harmful if swallowed.                           |

**Symptoms related to the physical, chemical and toxicological characteristics**

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects****Acute toxicity**

May be harmful if swallowed.

| Product          | Species | Test Results               |
|------------------|---------|----------------------------|
| RESTROOM CLEANER |         |                            |
| <b>Acute</b>     |         |                            |
| <i>Dermal</i>    |         |                            |
| LD50             | Rabbit  | 17992.4785 mg/kg estimated |
| <i>Oral</i>      |         |                            |
| LD50             | Mouse   | 42932.2773 mg/kg estimated |
|                  | Rabbit  | 20120 g/kg estimated       |
|                  | Rat     | 10311.1709 mg/kg estimated |
| Components       | Species | Test Results               |

**Citric Acid (CAS 77-92-9)****Acute***Oral*

|      |       |            |
|------|-------|------------|
| LD50 | Mouse | 5040 mg/kg |
|      | Rat   | 6730 mg/kg |

**PHOSPHORIC ACID (CAS 7664-38-2)****Acute***Dermal*

|             |        |            |
|-------------|--------|------------|
| LD50        | Rabbit | 2740 mg/kg |
| <i>Oral</i> |        |            |
| LD50        | Rat    | 1530 mg/kg |

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

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization****Respiratory sensitization**

Not a respiratory sensitizer.

**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**

Prolonged inhalation may be harmful.

**Chronic effects**

Prolonged inhalation may be harmful.

**12. Ecological information****Ecotoxicity**

Harmful to aquatic life. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

| Product                                       |      | Species                              | Test Results                      |
|-----------------------------------------------|------|--------------------------------------|-----------------------------------|
| RESTROOM CLEANER                              |      |                                      |                                   |
| <b>Aquatic</b>                                |      |                                      |                                   |
| Crustacea                                     | EC50 | Daphnia                              | 94.9132 mg/l, 48 hours estimated  |
| Fish                                          | LC50 | Fish                                 | 131.4653 mg/l, 96 hours estimated |
| <b>Components</b>                             |      | <b>Species</b>                       | <b>Test Results</b>               |
| Alcohols, C9-11, ethoxylated (CAS 68439-46-3) |      |                                      |                                   |
| <b>Aquatic</b>                                |      |                                      |                                   |
| Crustacea                                     | EC50 | Water flea (Daphnia magna)           | 2.9 - 8.5 mg/l, 48 hours          |
| Fish                                          | LC50 | Fathead minnow (Pimephales promelas) | 6 - 12 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**

**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

|                                              |                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                                                   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                                                                                                                                           |
| <b>Waste from residues / unused products</b> | 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).                                                                                                                         |
| <b>Contaminated packaging</b>                | Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning. Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                                                                                               |

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List or Exempt.

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

Not regulated.

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

PHOSPHORIC ACID (CAS 7664-38-2) 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 - Yes  
                                     Delayed Hazard - No  
                                     Fire Hazard - No  
                                     Pressure Hazard - No  
                                     Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**            No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)**            Not regulated.

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

PHOSPHORIC ACID (CAS 7664-38-2)

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

PHOSPHORIC ACID (CAS 7664-38-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**

PHOSPHORIC ACID (CAS 7664-38-2)

**US. Rhode Island RTK**

PHOSPHORIC ACID (CAS 7664-38-2)

**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**                            03-05-2015

**Version #**                            01

**HMIS® ratings**                    Health: 3  
                                             Flammability: 0  
                                             Physical hazard: 0

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