

# SAFETY DATA SHEET

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>Professor Amos Toilet and Tank Cleaner</b>                            |
| <b>Other means of identification</b>                          | Not available.   |
| <b>Recommended use</b>  | Toilet and tank cleaner  |
| <b>Recommended restrictions</b>                               | None known.  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Manufacturer</b>   |  |
| <b>Company name</b>   | Science Solutions LLC  |
| <b>Address</b>  | 825 S. Waukegan Road<br>A8-226<br>Lake Forest, IL 60045<br>United States |
| <b>Telephone</b>  | (773) 261-1197   |
| <b>E-mail</b>   | info@sciencesolutionsllc.com   |
| <b>Emergency phone number</b>                                 | Infotrac Emergency Hotline 1-800-535-5053                                |

## 2. Hazards Identification

|                              |                 |
|------------------------------|-----------------|
| <b>Physical hazards</b>      | Not applicable. |
| <b>Health hazards</b>        | Not applicable. |
| <b>Environmental hazards</b> | Not applicable. |
| <b>OSHA defined hazards</b>  | Not applicable. |

### Label elements

|                                |                 |
|--------------------------------|-----------------|
| <b>Hazard symbol</b>           | Not applicable  |
| <b>Signal word</b>             | Not applicable. |
| <b>Hazard statement</b>        | Not applicable. |
| <b>Precautionary statement</b> |                 |
| <b>Prevention</b>              | Not applicable. |
| <b>Response</b>                | Not applicable. |
| <b>Storage</b>                 | Not applicable. |
| <b>Disposal</b>                | Not applicable. |

**Hazard(s) not otherwise classified (HNOC)** Not applicable

**Supplemental information** This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission. GHS labeling is not required per 29CFR1910.1200(b)(5)(v). The labeling above applies to industrial/professional products.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure. This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations.

This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission.

This product is not subject to 29 CFR HCS 1910.1200 regulations.

The following HCS exemption for consumer products apply; 29 CFR 1910.1200(b)(5)(v).

## 3. Composition/Information on Ingredients

### Mixtures

| Chemical name                            | Common name and synonyms | CAS number  | %    |
|--|--------------------------|-------------|------|
| Hydrochloric acid                        |                          | 7647-01-0   | 5-10 |
| 1-Dodecanamine,<br>N,N-dimethyl-,N-oxide |                          | 1643-20-5   | 1-5  |
| Nonylphenol polyethylene glycol ether    |                          | 127087-87-0 | 1-5  |

| Chemical name                           | Common name and synonyms | CAS number | %     |
|---|--------------------------|------------|-------|
| N,N-dimethyl-1-tetradecanamine, N-oxide |                          | 3332-27-2  | 0.1-1 |

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

#### 4. First Aid Measures

|   |  |
|---|--|
| <b>Inhalation</b>   | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.   |
| <b>Skin contact</b>   | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). Wash contaminated clothing before reuse.  |
| <b>Eye contact</b>  | 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 or doctor.   |
| <b>Ingestion</b>  | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.   |
| <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. May cause respiratory irritation.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Symptoms may be delayed.  |
| <b>General information</b>  | If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children. |

#### 5. Fire Fighting Measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Treat for surrounding material.  |
| <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. In case of fire: Stop leak if safe to do so. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.                 |

#### 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. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 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>               | Should not be released into the environment.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.        |
| <b>Environmental precautions</b>   | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.  |

## 7. Handling and Storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | DANGER -- CORROSIVE<br>Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Keep container tightly closed. Use good industrial hygiene practices in handling this material. When using do not eat or drink. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original 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               |
|-----------------------------------|---------|---------------------|
| Hydrochloric acid (CAS 7647-01-0) | Ceiling | 7 mg/m <sup>3</sup> |
|                                   |         | 5 ppm               |

#### ACGIH

| Components                        | Type | Value                  |
|-----------------------------------|------|------------------------|
| Hydrochloric acid (CAS 7647-01-0) | TWA  | 2.98 mg/m <sup>3</sup> |

#### US. ACGIH Threshold Limit Values

| Components                        | Type    | Value |
|-----------------------------------|---------|-------|
| Hydrochloric acid (CAS 7647-01-0) | Ceiling | 2 ppm |

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

| Components                        | Type    | Value               |
|-----------------------------------|---------|---------------------|
| Hydrochloric acid (CAS 7647-01-0) | Ceiling | 7 mg/m <sup>3</sup> |
|                                   |         | 5 ppm               |

|  |   |
|--|---|
| <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>   | Wear safety glasses with side shields (or goggles).   |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | Impervious gloves. Confirm with reputable supplier first.   |
| <b>Other</b>   | Wear appropriate chemical resistant gloves. As required by employer code.   |
| <b>Respiratory protection</b>  | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).  |
| <b>Thermal hazards</b>   | Not applicable.   |
| <b>General hygiene considerations</b>  | When using do not smoke. 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. Avoid contact with the skin and the eyes. When using do not eat or drink.                                       |

## 9. Physical and Chemical Properties

|                                     |                |
|-------------------------------------|----------------|
| <b>Appearance</b>                   | Liquid         |
| <b>Physical state</b>               | Liquid.        |
| <b>Form</b>                         | Liquid.        |
| <b>Color</b>                        | Green          |
| <b>Odor</b>                         | Minty          |
| <b>Odor threshold</b>               | Not available. |
| <b>pH</b>                           | < 2            |
| <b>Melting point/freezing point</b> | Not available. |

|   |                 |
|---|-----------------|
| <b>Initial boiling point and boiling range</b>      | Not available.  |
| <b>Pour point</b>                                   | Not available.  |
| <b>Specific gravity</b>                             | Not available.  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.  |
| <b>Flash point</b>                                  | Not available.  |
| <b>Evaporation rate</b>                             | < 1 (Water = 1) |
| <b>Flammability (solid, gas)</b>                    | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> |                 |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | Not available.  |
| <b>Relative density</b>                             | > 1             |
| <b>Solubility(ies)</b>                              | Soluble         |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Other information</b>                            |                 |
| <b>Explosive properties</b>                         | Not explosive.  |
| <b>Oxidizing properties</b>                         | Not oxidizing.  |

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## 10. Stability and Reactivity

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|   |  |
|---|--|
| <b>Reactivity</b>                         | Reacts violently with strong alkaline substances. May be corrosive to metals. This product may react with strong oxidizing agents. |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Chemical stability</b>                 | Stable at normal conditions.   |
| <b>Conditions to avoid</b>                | Do not mix with other chemicals.   |
| <b>Incompatible materials</b>             | Bases. Strong oxidizing agents. Reducing agents. Metals. Amines. Peroxides. Phenols.   |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of nitrogen. Oxides of carbon.  |

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## 11. Toxicological Information

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### Information on likely routes of exposure

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

**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. May cause respiratory irritation.

### Information on toxicological effects

**Acute toxicity** Causes burns.

| <b>Components</b>                                     | <b>Species</b> | <b>Test Results</b> |
|---|----------------|---------------------|
| 1-Dodecanamine, N,N-dimethyl-,N-oxide (CAS 1643-20-5) |                |                     |
| <b>Acute</b>  |                |                     |
| <i>Dermal</i>   |                |                     |
| LD50  | Rat            | > 2000 mg/kg, ECHA  |
| <i>Inhalation</i>                                     |                |                     |
| LC50  | Not available  |                     |

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| Components  | Species   | Test Results   |
|---|---|--|
| <i>Oral</i><br>LD50   | Rat   | 1064 mg/kg, ECHA   |
| Hydrochloric acid (CAS 7647-01-0)                                     |   |  |
| <b>Acute</b>  |   |  |
| <i>Dermal</i><br>LD50   | Not available   |  |
| <i>Inhalation</i><br>LC50   | Rat   | 45.6 mg/L, 5 Minutes, ECHA<br>8.3 mg/L, 30 Minutes, ECHA |
| <i>Oral</i><br>LD50   | Not available   |  |
| N,N-dimethyl-1-tetradecanamine, N-oxide (CAS 3332-27-2)               |   |  |
| <b>Acute</b>  |   |  |
| <i>Dermal</i><br>LD50   | Rabbit  | > 2000 mg/kg, 24 Hours, ECHA                             |
| <i>Inhalation</i><br>LC50   | Not available   |  |
| <i>Oral</i><br>LD50   | Rat   | > 1500 mg/kg, ECHA                                       |
| Nonylphenol polyethylene glycol ether (CAS 127087-87-0)               |   |  |
| <b>Acute</b>  |   |  |
| <i>Dermal</i><br>LD50   | Rabbit  | > 2000 mg/kg, Sigma Aldrich                              |
| <i>Inhalation</i><br>LC50   | Rat   | > 1.2 mg/L, 4 h, Sigma Aldrich                           |
| <i>Oral</i><br>LD50   | Rat   | 1602 mg/kg, ECHA   |
| <b>Skin corrosion/irritation</b>                                      | Causes severe skin burns and eye damage.                        |  |
| <b>Exposure minutes</b>   | Not available.  |  |
| <b>Erythema value</b>   | Not available.  |  |
| <b>Oedema value</b>   | Not available.  |  |
| <b>Serious eye damage/eye irritation</b>                              | Causes serious eye damage.                                      |  |
| <b>Corneal opacity value</b>  | Not available.  |  |
| <b>Iris lesion value</b>  | Not available.  |  |
| <b>Conjunctival reddening value</b>                                   | Not available.  |  |
| <b>Conjunctival oedema value</b>                                      | Not available.  |  |
| <b>Recover days</b>   | Not available.  |  |
| <b>Respiratory or skin sensitization</b>                              |   |  |
| <b>Respiratory sensitization</b>                                      | Not a respiratory sensitizer.                                   |  |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.       |  |
| <b>Germ cell mutagenicity</b>   | Non-hazardous by OSHA criteria.                                 |  |
| <b>Carcinogenicity</b>  | See below.  |  |
| <b>ACGIH Carcinogens</b>  |   |  |
| Hydrochloric acid (CAS 7647-01-0)                                     | A4 Not classifiable as a human carcinogen.                      |  |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |   |  |
| Hydrochloric acid (CAS 7647-01-0)                                     | Volume 54 - 3 Not classifiable as to carcinogenicity to humans. |  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b> |   |  |
|   | Not regulated.  |  |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |   |  |
|   | Not listed.   |  |
| <b>Reproductive toxicity</b>  | Non-hazardous by OSHA criteria.                                 |  |
| <b>Specific target organ toxicity - single exposure</b>               | May cause respiratory irritation.                               |  |

|   |                                      |
|---|--------------------------------------|
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                      |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.            |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. |
| <b>Further information</b>                                | Not available.                       |

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## 12. Ecological Information

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**Ecotoxicity** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. See below

**Ecotoxicological data**

| Components                        | Species | Test Results  |
|-----------------------------------|---------|---|
| Hydrochloric acid (CAS 7647-01-0) |         |   |
| <b>Aquatic</b>                    |         |   |
| Fish                              | LC50    | Western mosquitofish ( <i>Gambusia affinis</i> ) 282 mg/L, 96 hours |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential**

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

1-Dodecanamine, N,N-dimethyl-,N-oxide 4.67

**Mobility in soil** No data available.

**Mobility in general** Not 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.

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## 13. Disposal Considerations

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**Disposal instructions** Consult authorities before disposal. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. 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** D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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

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## 14. Transport Information

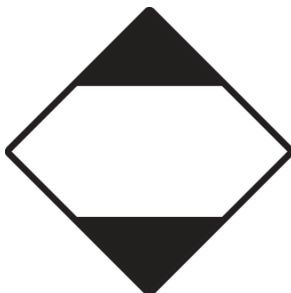
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**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

|                             |                       |
|-----------------------------|-----------------------|
| <b>UN number</b>            | UN1789                |
| <b>Proper shipping name</b> | Hydrochloric acid     |
| <b>Hazard class</b>         | Limited Quantity - US |
| <b>Packing group</b>        | II                    |

DOT




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## 15. Regulatory Information

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**US federal regulations** 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.

**TSCA Chemical Action Plans, Chemicals of Concern**

Nonylphenol polyethylene glycol ether (CAS 127087-87-0)

Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

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

Hydrochloric acid (CAS 7647-01-0)

Listed.

**SARA 304 Emergency release notification**

Hydrochloric acid (CAS 7647-01-0)

5000 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

No

**Classified hazard categories**Corrosive to metal  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)**SARA 313 (TRI reporting)**

| Chemical name     | CAS number | % by wt. |
|-------------------|------------|----------|
| Hydrochloric acid | 7647-01-0  | 5-10     |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Hydrochloric acid (CAS 7647-01-0)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Hydrochloric acid (CAS 7647-01-0)

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Hydrochloric acid (CAS 7647-01-0) 6545

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Hydrochloric acid (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

Hydrochloric acid (CAS 7647-01-0) 6545

**Food and Drug Administration (FDA)**

Not regulated.

**US state regulations**

See below

**US - Illinois Chemical Safety Act: Listed substance**

Hydrochloric acid (CAS 7647-01-0)

**US - Louisiana Spill Reporting: Listed substance**

Hydrochloric acid (CAS 7647-01-0) Listed.

**US - Minnesota Haz Subs: Listed substance**

Hydrochloric acid (CAS 7647-01-0) HYDROGEN CHLORIDE

**US - North Carolina Toxic Air Pollutants: Listed substance**

Hydrochloric acid (CAS 7647-01-0)

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

Not listed.

**US. Massachusetts RTK - Substance List**

Hydrochloric acid (CAS 7647-01-0)

**US. New Jersey Worker and Community Right-to-Know Act**Hydrochloric acid (CAS 7647-01-0)  
Nonylphenol polyethylene glycol ether (CAS 127087-87-0)**US. Pennsylvania Worker and Community Right-to-Know Law**

Hydrochloric acid (CAS 7647-01-0)

**US. Rhode Island RTK**

Hydrochloric acid (CAS 7647-01-0)

**California Proposition 65**

This product is not subject to warning labeling under the California Proposition 65 regulation.

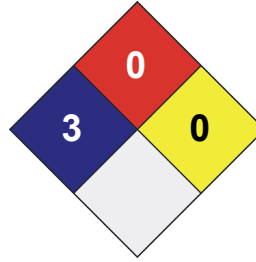
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

## 16. Other Information

| LEGEND   |   |
|----------|---|
| Severe   | 4 |
| Serious  | 3 |
| Moderate | 2 |
| Slight   | 1 |
| Minimal  | 0 |

|                     |   |   |
|---------------------|---|---|
| HEALTH              | / | 3 |
| FLAMMABILITY        |   | 0 |
| PHYSICAL HAZARD     |   | 0 |
| PERSONAL PROTECTION |   | X |



### Disclaimer

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### Issue date

20-April-2022

### Version #

01

### Further information

Not available.

### Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

### Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021