1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name United 77 BIATRON®

Other means of identification
SDS# UNITED 77

Recommended use of the chemical
Recommended use Organic Digester and Liquid Drain Cleaner
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet
Company Name United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

Emergency telephone number
Emergency Telephone 800-323-2594 (to reorder)
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, inhalation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Specific target organ toxicity, single exposure</td>
<td>Category 3 respiratory tract irritation</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, acute hazard</td>
<td>Category 3</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long-term hazard</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Danger

Emergency Overview

Hazard statements
Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. May cause respiratory irritation. May cause cancer. Harmful to aquatic life. Harmful to aquatic life with long-lasting effects.
Appearance | Clear-tan colored
---|---
Physical state | Liquid
Odor | None

Prevention
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor. Use only outdoors or in a well-ventilated area. 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 individual to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and able to do so. Continue rinsing. Wash contaminated clothing before reuse.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store according to local rules and regulations.

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

Hazard(s) not otherwise classified (HNOC)
Not classified.

Supplemental information
Not classified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>60-100</td>
<td>*</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td>-</td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures**

**Skin Contact**
Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continuing rinsing. Call a physician or poison control immediately.
Inhalation

Remove individual to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if individual inhaled substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison control or physician immediately.

Ingestion

Contact a physician or poison control immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs.

Most important symptoms and effects, both acute and delayed

Burning pain and severe corrosive skin damage. Irritation of nose and throat. 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.

Indication of any immediate medical attention and special treatment needed

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 individual warm. Keep individual under observation. Symptoms may be delayed.

General Information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this SDS to the physician in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Powder. Foam. Carbon Dioxide.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

Firefighters must use/wear full protective equipment and self-contained breathing apparatus in case of fire.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

General fire hazards

No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised in significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Environmental precautions
Environmental precautions

Avoid release into 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.

Methods and material for containment and cleaning up

Methods for containment and cleaning up

This product is miscible in water. Large Spills: Stop the flow of material, if you can do so 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. Small Spills: Wipe up with absorbent material (e.g. cloth or fleece). Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release into environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials, such as strong alkalis or flammables.

Incompatible materials

Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

No Exposure limits noted for ingredient(s).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid 7664-93-9</td>
<td>TWA: 0.2mg/m³</td>
<td>PEL: 1mg/m³</td>
<td>TWA: 1mg/m³</td>
</tr>
</tbody>
</table>

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

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 was facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical goggles and face shield recommended when working with chemicals. Chemical respirator with organic vapor cartridge and full face-piece.

Skin and body protection

Wear chemical resistant gloves. Use an impervious apron is recommended.

Respiratory protection

Chemical respirator with organic vapor cartridge and full face-piece, if needed.
General Hygiene
When using do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoothing. Regular cleaning of equipment, work area and clothing is recommended, to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH in aqueous solution</td>
<td>&lt;2 (1% DI water)</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.84 (H2O=1)</td>
<td></td>
</tr>
<tr>
<td>Percent volatile</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Information available.</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No Information available.</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Boiling point and Boiling range</td>
<td>550°F (287.78°C)</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>1 mm Hg @300°</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No Information available.</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No Information available.</td>
<td></td>
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<tr>
<td>Water solubility</td>
<td>Soluble.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>VOC (weight %)</td>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable at normal conditions.

Possibility of Hazardous Reactions
Hazardous polymerization does not occur.

Conditions to avoid
Avoid contact with incompatible materials: Alkalies. Metals.

Hazardous Decomposition Products
Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Hydrogen gas. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

Product Information

**Inhalation**  
Fatal if inhaled.

**Eye contact**  
Causes serious eye damage.

**Skin Contact**  
Causes severe skin burns.

**Ingestion**  
Causes digestive tract burns.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Burning pain and severe corrosive skin damage. Irritation of nose and throat. Symptoms may include stinging, redness, tearing, swelling and blurred vision. Causes serious eye damage. Permanent eye damage including blindness could result. May cause respiratory irritation.

Information on toxicological effects

**Acute toxicity**  
Fatal if inhaled. May cause respiratory irritation.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Dermal LD50</th>
<th>Oral LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid (7664-93-9)</td>
<td>–</td>
<td>2140 mg/kg (Rat)</td>
<td>347 mg/l, 1 hour (Rat)</td>
</tr>
</tbody>
</table>

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

| Skin/Eye irritation | Causes severe burns and eye damage. |
| Sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No information available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | May cause cancer. IARC (1 carcinogenic to humans) NTP (known to be human carcinogen) OSHA (No information available). |
| Reproductive toxicity | Not expected to cause reproductive or developmental effects. |
| STOT - single exposure | May cause respiratory irritation. |
| STOT - repeated exposure | No Information available. |
| Target organ effects | |
| Aspiration hazard | No information available. |
| Chronic effects | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. |

12. ECOLOGICAL INFORMATION

**Ecotoxicity**  
Toxic to aquatic life with long lasting effect. Accumulation in aquatic organisms is expected.

**Persistence and degradability**  
No Information available.

**Bioaccumulation**  
No Information available.

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

13. DISPOSAL CONSIDERATIONS
Waste treatment methods

Disposal of wastes
Collect or dispose in sealed containers and licensed waste disposal site. Do not drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Disposal should be in accordance with applicable regional, national and local laws and 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.

Waste from residues/unused products
Dispose 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

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN/ID No.</th>
<th>UN1830</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Sulfuric Acid</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) Class</td>
<td>8 PGII</td>
<td></td>
</tr>
<tr>
<td>Label(s)</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IATA</th>
<th>UN/ID No.</th>
<th>UN1830</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Sulfuric Acid</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class Class</td>
<td>8 PGII</td>
<td></td>
</tr>
<tr>
<td>Environmental Class Marine Pollutant</td>
<td>No.</td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

International Inventories
Australia, Canada, China, Europe, Japan, Korea, New Zealand, Philippines-Yes*
Canada, Europe-No

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-Yes
DSL/NDSL - Canadian Domestic Substances List-Yes/Non-Domestic Substances List-No

*A Yes indicates that all components of this product comply with the inventory requirements administered by the governing county(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).

**US Federal Regulations**

Superfund Amendments and Reauthorization Act of 1986

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA 313 (TRI reporting)

Sulfuric Acid (7664-93-9) - 93.2 % of weight.

SARA 302/304 Extremely hazardous substance

Sulfuric Acid (7664-93-9) – Reportable quantity – 1000 Threshold planning quantity – 1000lbs

SARA 311/312 Hazardous Chemical - Yes

CERCLA

Sulfuric Acid (7664-93-9) Listed.

CAA (Clean Air Act) Section 112 Hazardous Air Pollutants (HAPs) List – Not regulated.

CAA (Clean Air Act) Section 112(r) Accidental Release Prevention (40 CFR 68.130) – Sulfuric Acid (7664-93-9)

SDWA (Safe Drinking Water Act) – Not Regulated.

DEA (Drug Enforcement Administration). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number – Sulfuric Acid (7664-93-9) 6552

DEA, List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) – Sulfuric Acid (7664-93-9) 20% Weight/Volume

DEA, Exempt Chemical Mixtures Code Number – Sulfuric Acid (7664-93-9) 6552

**US State Regulations**

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US-California Proposition 65-CRT: Listed carcinogenic substance – Sulfuric Acid (7664-93-9)

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey-Rhode Island</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid (7664-93-9)</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

**NFPA**

<table>
<thead>
<tr>
<th>Property</th>
<th>New Jersey-Rhode Island</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instability</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical and Chemical Properties</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HMIS**

<table>
<thead>
<tr>
<th>Property</th>
<th>New Jersey-Rhode Island</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>3*</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical hazards</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal protection</td>
<td>B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Issue Date 11-Apr-2015
Revision Date 1-June-2015
Revision Note No Information available
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet