1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name
United 21 Sewer Solvent

Other means of identification
SDS# UNITED 21

UN# UN3262

Recommended use of the chemical
And restrictions on use
Recommended use
Uses Advised Against
Compounded for use in Municipal Sewers
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>Substance</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing solids</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Eye damage/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Emergency Overview

Danger

Hazard statements
Causes severe skin burns and eye damage. Causes serious eye damage. May intensify fire: oxidizer. May cause respiratory irritation. May cause drowsiness or dizziness.
Prevention
Keep away from open flames, no smoking. Take any precaution to avoid mixing with acids, reducing agents, water. Product will generate large amounts of heat when wetted. Do not breathe dust/fume/gas/mist/vapors/spray. Wash skin/hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area.

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 thoroughly after handling. Immediately call poison center or physician. Wash contaminated clothing before reuse. In case of fire: Use dry extinguishing powder, foam, carbon dioxide (CO2) to extinguish. If you feel unwell immediately call a poison center/doctor/physician.

Storage
Store away from clothing, combustible material. Keep container tightly closed and locked up. Store in dry place.

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

Hazard(s) not otherwise classified (HNOC)
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>Sodium hydroxide, caustic</td>
<td>1310-73-2</td>
<td>30-60</td>
<td>*</td>
</tr>
<tr>
<td>Sodaity nitrate</td>
<td>7631-99-4</td>
<td>15-35</td>
<td>*</td>
</tr>
<tr>
<td>Aluminum pellets</td>
<td>7429-90-5</td>
<td>1-7</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
Seek medical advice if you feel unwell, (show SDS where possible).

Skin Contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If available, use an eye saline solution, to flush out eyes. Get medical attention immediately, this product in the eye area needs to be removed immediately.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor/physician if you feel unwell.

Ingestion
Fatal if swallowed. Get immediate medical attention. Rinse mouth out with water. Do not induce vomiting.
Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects see Section 11.

Indication of any immediate medical attention and special treatment needed

This is an alkaline product that can cause severe damage (burns) to eyes, burns to gastric / intestinal mucosa, burns to skin.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical powder. Carbon dioxide. Foam. Addition of water to this compound will generate heat and hydrogen gas.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical
Take any precaution to avoid mixing with acids, reducing agents, water. Product will generate large amounts of heat when wetted.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate unnecessary personnel. Wear protective equipment.

Environmental precautions

Environmental precautions For small spills: clean up spilled liquid wearing gloves, goggles face shield, and suitable body protection. Sweep-up or vacuum spilled solid. Decontaminate the area thoroughly. Neutralize spill residue with hydrated lime (calcium oxide), soda ash or sodium bicarbonate. Treat area with litmus paper to ensure neutralization. Place all spill residues in a suitable container. Thoroughly wash the area after clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater. Should not be released into the environment.

Methods and material for containment and cleaning up

For small releases, clean-up spilled liquid wearing gloves, goggles, face shield, and suitable body protection. Sweep-up or vacuum spilled solid. Decontaminate the area thoroughly. Neutralize spill residue with hydrated lime (calcium oxide), soda ash or sodium bicarbonate. Test area with litmus paper to ensure neutralization. Place all spill residues in a suitable container. Thoroughly wash the area after clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.
Incompatible materials  May be corrosive to metals, strong acids. Metals.

Specific end use(s)  This product is used to chemically unclog and maintain sewer lines. It will chemically saponify and solubilize grease and sludge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines  No Exposure limits noted for ingredient(s).

Appropriate engineering controls

Engineering Controls  Use only outdoors or in well-ventilated area. Do not let product enter drains.

Individual protection measures, such as personal protective equipment

Body protection  Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection  If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with OSHA standard 63FR 1152, Jan. 8 1998. Respirator type: Air-purifying respirator with appropriate, government approved air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

General Hygiene  Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Clean contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Granular Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White granules</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Bland odor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent volatile</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No Information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point and Boiling range</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC (weight %)</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY
Reactivity
Reacts with some metals: release of highly flammable vapors/gases (hydrogen). Reacts violently with water.

Chemical stability
Material is stable at normal conditions.

Possibility of Hazardous Reactions
Reacts violently with water.

Conditions to Avoid
Exposure to moisture.

Incompatible materials
May be corrosive to metals, strong acids. Metals.

Hazardous Decomposition Products
May release flammable gases.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral – LD_{50}</th>
<th>Dermal – LD_{50}</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>4090 mg/kg</td>
<td>1350 mg/kg</td>
</tr>
<tr>
<td>CAS: 1310-73-2</td>
<td>body weight</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Sodium nitrate</td>
<td>1350 mg/kg</td>
<td>1267 mg/kg</td>
</tr>
<tr>
<td>7631-99-4</td>
<td>body weight</td>
<td>body weight</td>
</tr>
<tr>
<td>(Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product Information

Inhalation
No information available.

Eye contact

Skin Contact
Strong caustic effect on skin and mucous membranes.

Fatal if swallowed.

Ingestion

Information on toxicological effects

Acute toxicity
No information available.

Skin/ Eye irritation
Strong caustic effect on skin and strong irritant with danger of severe eye injury. Corrosive effect.

Sensitization
No information available.

Germ cell mutagenicity
No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

Aspiration hazard
No information available.

Chronic effects
No information available.

Specific target organ toxicity (single exposure)
May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.
Persistence and degradability
No information available.

Bioaccumulation
No information available.

Soil Mobility
No information available.

Other adverse effects
No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
Disposal should be in accordance with applicable local, regional, and national laws and regulations. Material can be converted to a less hazardous material by weak reducing agents followed by neutralization.

Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT
UN/ID No. UN3262
Proper shipping name Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide)
Transport hazard class(es) 8
Packing group II

IATA Not classified.

IMDG Not classified.

Environmental Class
Marine Pollutant No information available.

15. REGULATORY INFORMATION

This product or mixture does not contain a toxic chemical(s) in excess of the applicable de minimis concentration as specified in 40CFR §372.38(a) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-Listed

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986

Acute health hazard No
Delayed hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313 (TRI reporting)
Sodium Hydroxide, Caustic Soda (1310-73-2) RQ, 1000 lbs.

SARA 311/312
No information available.
US State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Aluminum (fume or dust) 7429-90-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nitric Acid 7631-99-4</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health hazards</td>
<td>Health hazards</td>
<td>Flammability</td>
<td>Reactivity</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>Personal protection</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>J</td>
</tr>
</tbody>
</table>

Issue Date 15-Mar-2017
Revision Date 28-Aug-2018
Revision Note Revised

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