1. IDENTIFICATION

Product Identifier
Product Name United 385 Emulsifiable Vegetation Killer Concentrate

Other means of identification
SDS # UNITED-385

Recommended use of the chemical and restrictions on use
Recommended Use Emulsifiable Vegetation Killer Concentrate
Uses Advised Against For industrial and institutional use only.

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

Emergency Telephone Number
Company Phone Number 800-323-2594 (to reorder)
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquid</td>
<td>Category 3</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Aspiration Toxicity</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements
Signal word DANGER

Hazard statements
Flammable liquid and Vapor.
May be fatal if swallowed and enters airways.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Appearance  Reddish to brown liquid  Physical State  Liquid  Odor  Petroleum Odor

Emergency Overview

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, open flames, sparks –No smoking.
Keep container tightly closed.
Ground/bond container and receive equipment.
Use explosion-proof electrical, lighting, ventilation equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear eye protection, protective clothing, and protective gloves.

Precautionary Statements - Response
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerted: Get medical advice/attention.
Do NOT induce vomiting.
If eye irritation persists: Get medical advice/attention.
In case of fire: use ABC-powder, alcohol resistant foam, Carbon dioxide (CO2) to extinguish.

Precautionary Statements - Disposal
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, nation and/or international regulations.

Precautionary Statements - Storage
Store according to local rules and regulations.
Store in a well-ventilated place. Keep cool.

Hazards not otherwise classified (HNOC)
None known

Other Information
None known
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil, No 4, Gasoil – unspecified</td>
<td>68476-31-3</td>
<td>60-100</td>
</tr>
<tr>
<td>SOLVESSO 100</td>
<td>64742-95-6</td>
<td>10-30</td>
</tr>
<tr>
<td>Polyethylene glycol octylphenyl ether</td>
<td>9036-19-5</td>
<td>3.0-7.0</td>
</tr>
<tr>
<td>Butan-1-ol, n-butanol</td>
<td>71-36-3</td>
<td>1.0-5.0</td>
</tr>
<tr>
<td>2-phenoxyethanol</td>
<td>122-99-6</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0.1-0.3</td>
</tr>
</tbody>
</table>

### 4. FIRST-AID MEASURES

#### First Aid Measures

**General Advice**

If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned Get medical advice/attention.

**Eye Contact**

Rinse cautiously with water for several minutes. Remove contacts if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact**

Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion**

Immediately call a poison center or doctor/physician. Do NOT induce vomiting.

#### Most important symptoms and effects

**Symptoms/injuries**

If you feel unwell, seek medical advice. May cause damage to organs through prolonged or repeated exposure. May cause genetic defects (through prolonged or repeated exposure). May cause cancer.

**Symptoms/injuries after inhalation**

Harmful if inhaled. EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Irritation of the respiratory tract. Headache. May cause drowsiness or dizziness.

**Symptoms/injuries after skin contact**

Causes skin irritation.

**Symptoms/injuries after eye contact**

Causes serious eye irritation.

**Symptoms/injuries after ingestion**

May be fatal if swallowed and enter airways.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.
Reactivity
On burning: release of toxic and corrosive gases/vapors (nitrous vapors, sulfur oxides, carbon monoxide – carbon dioxide). If the product is involved in a fire, it can release toxic chlorine gases. React violently with (strong) oxidizers.

Protective equipment and precautions for firefighters
Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due to risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Remove ignition sources. Use special care to avoid static electric charges.

Environmental Precautions
Avoid release to the environment. Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

Methods for Clean-Up
This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material e.g.: sand/earth. Clean contaminated surfaces with soap solution.

Method of Containment
Contain released substance pump into suitable containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Obtain special instructions before use. Remove contaminated clothing immediately. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical Measures
Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions
Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.

Incompatible Products
Oxidizing agents.

Incompatible Materials
Sources of ignition.

Storage Area

Special Rules on Packaging
Keep only in original container. Meet the legal requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>TWA: 10ppm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>91-20-3</td>
<td>STEL: 10ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Individual protection measures, such as personal protective equipment

**Personal Protective Equipment**
Use appropriate equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles.

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>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Reddish brown liquid</td>
<td>Odor Petroleum Odor</td>
</tr>
<tr>
<td>Color</td>
<td>Reddish brown</td>
<td>Odor Threshold Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>55.56°C(123°F)</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.87g/ml</td>
<td>(1=Water)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Emulsifies in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>&lt;20cSt</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Reactivity**
On burning: release of toxic and corrosive gases/vapors (nitrous vapors, sulfur oxides, carbon monoxide – carbon dioxide). If the product is involved in a fire, it can release toxic chlorine gases. React violently with (strong) oxidizers.

**Chemical Stability**
Combustible liquid. Stable under normal conditions. Risk of explosion if heat under confinement. Heating may cause a fire or explosion.

**Possibility of Hazardous Reactions**
No information available.

**Conditions to Avoid**
No information available.
Incompatible Materials
Oxidizing agents.

Hazardous Decomposition Products
Thermal decomposition produced: CO, CO₂, Oxides of nitrogen and other potentially toxic fumes.

11. TOXICOLOGICAL INFORMATION

Product Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene 91-20-3</td>
<td>&gt;1100mg/kg (rat)</td>
<td>&gt;2500mg/kg (rat)</td>
<td>500,000mg/kg body weight</td>
</tr>
<tr>
<td>SOLVESSO 100 64742-95-6</td>
<td>&gt;200mg/kg (rat)</td>
<td>&gt;20000mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ATE CLP (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-phenoxyethanol 122-66-3</td>
<td>500.000mg/kg body weight</td>
</tr>
<tr>
<td>Butan-1-ol, n-butanol 71-36-3</td>
<td>500.000mg/kg body weight</td>
</tr>
</tbody>
</table>

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Not classified

Inhalation Not classified

Ingestion Not classified

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity May cause cancer

Germ Cell Mutagenicity May cause genetic defects.
### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity
Toxic to aquatic life with long lasting effects. Avoid releasing to the environment.

#### Persistence/Degradability
Readily biodegradable in water.

#### Bioaccumulation
Low potential of bioaccumulation.

#### Mobility
Not determined

#### Other Adverse Effects
Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

##### Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION

US Federal Regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substance Control Act (TSCA) inventory.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following Chemical(s) which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
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</table>

California Proposition 65
This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

FIFRA Information
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under the federal pesticide law. This requirement differs from the classification criteria and hazard information required on the pesticide label also includes other important information, including directions for use.

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
<td></td>
<td>n &amp; p</td>
</tr>
</tbody>
</table>

Issue Date: 10-Oct-2011
Revision Date: 23-Jun-2015
Revision Note: New format

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