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Version 2

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

Flammable Liquid	Category 3
Eye Irritation	Category 2A
Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration Toxicity	Category 1

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

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

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 CONCENTRAIONS: 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.
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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.
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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	Store away for heat. Store in cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.
Special Rules on Packaging	Keep only in original container. Meet the legal requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Naphthalene 91-20-3	TWA: 10ppm STEL: 10ppm	-	-

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

Physical State	Liquid	Odor	Petroleum Odor
Appearance	Reddish brown liquid	Odor Threshold	Not determined
Color	Reddish brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	Literary Reference
Boiling Point/Boiling Range	Not determined	
Flash Point	55.56°C(123°F)	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	0.87g/ml	(1=Water)
Water Solubility	Emulsifies in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	<20cSt	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	>90%	

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphthalene 91-20-3	>1100mg/kg (rat)	>2500mg/kg (rat) >20000mg/kg (rabbit)	500.000mg/kg body weight
SOLVESSO 100 64742-95-6	>200mg/kg (rat)	>3160mg/kg (rabbit)	-

Chemical Name	ATE CLP (oral)
2-phenoxyethanol 122-66-3	500.000mg/kg body weight
Butan-1-ol, n-butanol 71-36-3	500.000mg/kg body weight

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.

Chemical Name	IARC group	National Toxicity Program (NTP) Status
Naphthalene 91-20-3	2B - Possibly Carcinogenic to Humans	3 – Reasonably anticipated to be Human Carcinogen

Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (single exposure)	Not classified
Specific Target Organ Toxicity (repeated exposure)	Not classified
Aspiration Hazard	May be fatal if swallowed and enters airways.
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 CONCENTRAIONS: 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.

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

DOT

Proper Shipping Name	Flammable liquid, n.o.s. (Aliphatic Hydrocarbons)
UN Number	UN1993
Hazard Class	3
Packaging Group	III
IATA	Not determined
IMDG	Not determined

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.

Chemical Name	Cas-No	Weight%
Naphthalene	91-20-3	0.1-0.3
Butan-1-ol, n-butanol	71-36-3	1.0-5.0

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

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	-
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	n & p

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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