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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name United 585 WEED & BRUSH LOW-V

Other means of identification

SDS # UNITED-585

Recommended use of the chemical and restrictions on use

Recommended Use Weed and Brush Killer

Use 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 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless to slightly yellow **Physical State** Liquid **Odor** Hydrocarbon scent

Signal Word

Danger

Hazard Statements

Combustible liquid.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.



Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood.
Keep away from open flames, sparks, and heat. – No smoking
Wash thoroughly after handling.
Wear protective clothing, eye protection, and protective gloves.

Precautionary Statements - Response

IF SWALLOWED: Immediately call a poison center or doctor.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

Do not induce vomiting.

In case of fire: Use ABC-powder, alcohol resistant foam, carbon dioxide (CO₂) to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to comply with local/regional/national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product identifier	%	Classification (GHS-US)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS No) 64742-47-8	60 - 100	Flam. Liquid, 4, H227 Asp. Tox., 1, H304
Alkanes, C14-16	(CAS No) 90622-46-1	10 - 30	Asp. Tox., 1, H304
2-butoxethox ethanol, diethylene glycol monobutyl ether	(CAS No) 112-34-5	10-30	Eye Irritant, 2A, H319
2-ethylhexyl 2,4-dichlorophenoxyacetate	(CAS No) 1928-43-4	0.5 – 1.5	Acute Tox., 4 (Oral), H302
Glycol Ether EB	(CAS No) 111-76-2	0.1 – 1.0	Flam. Liquid, 4, H227 Acute Tox., 4, (Oral) H302 Skin Irritant, 2, H315 Eye Irritant, 2A, H319 STOT, RE, 2, H373 Asp. Tox., 1, H304

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures**General Advice**

If you feel unwell, seek medical advice (show the label where possible).

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: get medical advice/attention.

Skin Contact

Take off immediately all contaminated clothing and wash it before use. Wash skin with plenty of water. Soap may be used. If skin irritation or rash occurs: Get medical attention/advice.

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

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

Most important symptoms and effects

Symptoms	If you feel unwell, seek medical advice.
Symptoms after inhalation	Irritation of the respiratory tract.
Symptoms after skin contact	Irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms after eye contact	Causes serious eye irritation.
Symptoms after ingestion	May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

ABC powder. Carbon dioxide. Alcohol-resistant foam.

Unsuitable Extinguishing Media Do not use a heavy water stream.

Reactivity

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

Firefighting Instructions

Exercise caution when fighting any chemical fire. In case of fire: evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection During Firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Measures	No flames. No sparks. Eliminate all sources of ignition.
Protective Equipment	For non-emergency personnel: Protective goggles. Gloves. Protective clothing. For emergency procedures: Evacuate unnecessary personnel. No naked flames or sparks
Emergency Procedures	For protective equipment: Equipment clean-up crew with proper protection. For emergency responders: Stop leak if safe to do so. Stop release. Ventilate area.

Methods and material for containment and cleaning up

Methods for Containment	Contain released substance, pump into suitable containers.
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 a soap solution.

7. HANDLING AND STORAGE

Precautions for safe handling

Comply with 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. Keep away from sources of ignition – No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately.

Hygiene measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures	Comply with applicable regulations. Proper grounding procedure to avoid static electricity should be followed.
Storage conditions	Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat. Keep container tightly closed.
Incompatible products	Oxidizing agent.
Incompatible materials	Sources of ignition.
Storage area	Store away from heat. Store in a 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

Control Parameters

No additional information available.

Individual protection measures, such as personal protective equipment

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Hydrocarbon odor
Appearance	Oily Liquid		
Color	Colorless to slightly yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	1
Melting Point /Freezing Point	No data available	Not determined
Boiling Point	No data available	83 °C / 183 °F
Flash Point	>210°F	None
Evaporation Rate	No data available	
Flammability (Solid, Gas)	No data available	Liquid-Not applicable
Vapor Pressure	No data available	Not determined
Vapor Density	No data available	>1
Specific Gravity	0.84 g/ml	
Water Solubility	Insoluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	No data available	Not determined
Decomposition Temperature	No data available	Not determined
Kinematic Viscosity	< 20 cSt	
Dynamic Viscosity	No data available	Not determined
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	<3%	

10. STABILITY AND REACTIVITY

Reactivity

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

Chemical Stability

Combustible liquid. Stable under normal conditions. Risk of explosion if heated under confinement. Heating may cause a fire or explosion.

Possibility of Hazardous Reactions

Refer to Reactivity listed above.

Conditions to Avoid

Open flame. Overheating. Sparks.

Incompatible Materials

Oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition products: CO, CO₂, Oxides of nitrogen and other potentially toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Not classified
2-ethylhexyl 2, 4-dichlorophenoxyacetate (1928-43-4)	
LD50 oral rat	896 mg/kg (Rat)
LD50 dermal rabbit	>2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	>5.4 mg/l/4h (Rat)
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LD50 dermal rabbit	>5000 mg/kg (Rabbit; Literature)
Glycol Ether EB (111-76-2)	
LD50 oral rat	1300 mg/kg
LD50 dermal rat	>2000 mg/kg
ATE CLP (oral)	1300.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h
Alkanes (90622-46-1)	
LD50 oral rat	>2000mg/kg (Rat)
LD50 dermal rat	>2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	>5.8 mg/l/4h
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

Glycol Ether EB (111-76-2)	
IARC group	3 – Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Glycol Ether EB (111-76-2)	
LOAEL (oral, rat, 90 days)	69 mg/kg bodyweight/day Target organ: liver
NOAEL (dermal, rat/rabbit, 90 days)	150 mg/kg bodyweight/day
Aspiration hazard	: May be fatal if swallowed and enters airways
Symptoms/injuries after inhalation	: Irritation of the respiratory tract.
Symptoms/injuries after skin contact	: Irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
Symptoms after eye contact	: Causes serious eye irritation
Symptoms after ingestion	: May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Persistence/Degradability

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, Cyclics, <2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Absorbs into soil.

Bioaccumulative potential

2-ethylhexyl 2,4-dichlorophenoxyacetate (1928-43-4)	
Log Pow	5.78 (Experimental value)

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose of contents/container to comply with local/regional/national regulations.

14. TRANSPORT INFORMATION

DOT Not regulated.

IATA No information available.

IMDG No information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TCSA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2-ethylhexyl 2,4-dichlorophenoxyacetate	CAS No 1928-43-4	0.5 – 1.5
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	CAS No 112-34-5	10 - 30

2-ethylhexyl 2,4-dichlorophenoxyacetate (1928-43-4)
Listed on SARA Section 313 (Specific toxic chemical listings)

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if swallowed. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

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.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

<u>NFPA</u>	Health Hazards	Flammability	Reactivity	Special Hazards
	2	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Reactivity	Personal Protection
	2	1	0	B

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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