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Version 3

1. IDENTIFICATION

Product Identifier

Product Name United 850 H₂SORB

Other means of identification

SDS # UNITED-850

Recommended use of the chemical and restrictions on use

Recommended Use Odor and H₂S Gas Absorbent

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

While this product is not considered hazardous by the OSHA Hazard Communication Standard (29CFR1910.1200), this SDS contains valuable information critical the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Label elements

Signal word None

Hazard statements

No known significant effects or critical hazards.

Emergency Overview**Precautionary Statements - Prevention**

Not applicable.

Precautionary Statements - Response

Not applicable.

Precautionary Statements - Disposal

Not applicable.

Precautionary Statements - Storage

Not applicable.

Hazards not otherwise classified (HNOC)

None known.

Other Information

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%
Ethanol	64-17-5	≥1-<3
Alcohols, C9-11, ethoxylated	68439-46-3	≥1-<3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST-AID MEASURES**First Aid Measures****Eye Contact**

Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection for first-aiders

No action shall be taken involving any personal risk or without suitable training.

Most important symptoms and effects

No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No specific fire or explosion hazards.

Hazardous Decomposition Products

Decomposition products may induce the following materials: Carbon dioxide. Carbon monoxide. Metal oxide/oxides.

Protective equipment and precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Wear appropriate personal protective equipment.

Emergency responders: If specialized clothing is required to deal with the spillage, take note any information in Section 8 on suitable and unsuitable materials.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for Clean-Up

Small spills: Move containers from spill area. Vacuum or sweep up material and place in a labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a licensed waste container. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling and general occupational hygiene

Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containment to avoid environment contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol	1000 ppm STEL	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm TWA; 1900 mg/m ³ TWA

Appropriate engineering controls

Engineering Controls

Good general ventilation should be sufficient to control work exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicated this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin and Body Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection

Using a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygiene Considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash station and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Not determined
Appearance	Blue gel like solid	Odor Threshold	Not determined
Color	Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point/Boiling Range	Not information available	
Flash Point	78.889°C/174°F	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	No information available	
Upper Flammability Limits	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition Coefficient	No information available	
Auto ignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	
VOC Content	No information available	

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

No additional information available.

Incompatible Materials

No additional information available.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7g/kg (Rat)	-	124700mg/m ³ (Rat) 4h
Alcohol, C9-11, ethoxylated	1378mg/kg (Rat)	2g/kg (Rabbit)	-

Information on likely routes of exposure

Product Information	Routes of entry anticipated: Dermal. Routes of entry not anticipated: Oral, Inhalation.
Eye Contact	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Information on physical, chemical and toxicological effects

Symptoms No specific data available.

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

Carcinogenicity No known significant effects or critical hazards.

Classification

Chemical Name	OSHA	IARC	NTP
Ethanol	No	1	No

Teratogenic Effects

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Chronic Toxicity

No known significant effects or critical hazards.

Specific target organ toxicity (single/repeated exposure)

No information available.

Sensitization

No information available.

Numerical measures of toxicity

Acute Toxicity estimates – No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence/Degradability

No information available.

Bioaccumulation

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethanol	-0.35	-	Low

Mobility

No information available.

Other Adverse Effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions or any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have been cleaned or rinsed out. Empty containers or liners may retain some products residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

14. TRANSPORT INFORMATION

DOT

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

International Inventories

Not listed.

TSCA 8(a) CDR Exempt/Partial exemption: Not determined.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)-Listed.

Clean Air Act Section 602 Class I and Class II Substances-Not listed.

DEA List I Chemicals (Precursor chemicals)/ DEA List II Chemicals (Essential chemicals)-Not listed.

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986

Acute Health Hazard	Yes
Delayed Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactivity Hazard	No

CWA (Clean Water Act) 311

Sodium hydroxide.

SARA 304 RQ-No information available.

SARA 311/312-No information available.

California Proposition 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Methanol	No	Yes	No	23000µg/day (ingested) 47000 µg/day (inhalation)

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	New York	Pennsylvania
Ethanol	X	X		X

Alcohol	X			
Propylene glycol	X			
1,2-Propanediol	X			X
Denatured alcohol		X		X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	*2	2	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