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Version 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name United 306 REFRESH-SORB

Other means of identification

SDS # UNITED-306

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

Toxic to reproduction (fertility and unborn child)

Category 1B

Label elements

Signal word DANGER

Hazard statements

May damage fertility or the unborn child. May cause harm to breast-fed children.



Appearance Blue gel like solid

Physical State Solid

Odor Fresh Scent

Emergency Overview**Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid contact during pregnancy or while nursing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Precautionary Statements - Response

If exposed or you are concerned: Get medical attention.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with all local, regional, national and international regulations.

Precautionary Statements - Storage

Store locked up. Store according to local, regional, national and international rules and regulations.

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	≥3-<5
Methanol	67-56-1	≥0.1-<0.3
Alcohols, C9-11, ethoxylated	68439-46-3	≥1-<2

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. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of First-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Most important symptoms and effects

Symptoms	No known significant effects or critical hazards for eye, skin contact, and inhalation and ingestion. Over-exposure signs/symptoms: Inhalation: Adverse symptoms may include the following: reduced fetal weight, increase in fetal death and skeletal malformations. Skin contact: Adverse symptoms may include: reduced fetal weight, increase in fetal deaths and skeletal malformations. Ingestion: Adverse symptoms may include the following: reduced fetal weight, increase fetal deaths and skeletal malformations.
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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.
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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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. 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.

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. Provide adequate ventilation. Wear appropriate personal protective equipment. See 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. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
 Large spills: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin, and clothing. Keep in the original container or an approved alternative made from a compatible material; keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact during pregnancy or while nursing. Do not handle until all safety precautions have been read and understood.

General occupational hygiene

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 Section 8 for additional hygiene 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	STEL: 1000 ppm 15 min.	TWA: 1000 ppm 8 hours TWA: 1900 mg/m ³ 8 hours	TWA: 1000 ppm 8 hours TWA: 1900 mg/m ³ 10 hours
Methanol	TWA: 200 ppm 8 hours TWA: 262 mg/m ³ 8 hours STEL: 250 ppm 15 min. STEL: 328 mg/m ³ 15 min	TWA: 200 ppm 8 hours TWA 260 mg/m ³ 8 hours STEL: 250 ppm 15 min. STEL: 325 mg/m ³ 15 min.	TWA: 200 ppm 10 hours TWA 260 mg/m ³ 10 hours STEL: 250 ppm 15 min. STEL: 325 mg/m ³ 15 min.

Appropriate engineering controls

Engineering Controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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: safety glasses with side-shields.
- 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** Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- 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	Fresh Scent
Appearance	Blue gel like solid	Odor Threshold	Not determined
Color	Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	78.889°C/174°F	Closed Cup
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	Not determined	(1=Water)
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	3%	

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

Not applicable.

Incompatible Materials

Not applicable.

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
Methanol	5600 mg/kg (Rat)	15800mg/kg (Rabbit)	145000 ppm (Rat) 1hr 64000 ppm (Rat) 4hr
Ethanol	7g/kg (Rat)	-	124700mg/m ³ (Rat) 4hr
Alcohol, C9-11, ethoxylated	1378mg/kg (Rat)	2g/kg (Rabbit)	-

Sensitization No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Mutagenicity No information available.

Teratogenicity No information available.

STOT-single exposure:	Category:	Routes of exposure:	Target organs:
Methanol	Category 1	All	Blood
STOT-repeated exposure	Category 1	All	Central nervous system and eyes
Methanol			

Information on likely routes of exposure

Product Information	Routes of entry anticipated: Dermal
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

Over-exposure signs/symptoms: Inhalation: Adverse symptoms may include the following: reduced fetal weight, increase in fetal death and skeletal malformations. Skin contact: Adverse symptoms may include: reduced fetal weight, increase in fetal deaths and skeletal malformations. Ingestion: Adverse symptoms may include the following: reduced fetal weight, increase fetal deaths and skeletal malformations.

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

No information available for short or long-term exposure. Chronic health effects include: Fertility effects: May damage fertility. Teratogenicity: May damage the unborn child. Developmental effects: May cause harm to breast-fed children.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence/Degradability

No information available.

Bioaccumulation

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethanol	-0.35	-	Low
Methanol	-0.77	<10	Low

Mobility

Not 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.

15. REGULATORY INFORMATION

International Inventories

Not determined.

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986

Acute Health Hazard	Yes (Ethanol, Alcohols, C9-11, ethoxylated)
Delayed Hazard	No (Methanol, yes)
Fire Hazard	Yes (Ethanol and Methanol)
Sudden Release of Pressure Hazard	No
Reactivity Hazard	No

CWA (Clean Water Act) 311

Sodium hydroxide.

CAA (Clean Air Act) Section 112 (b) Hazardous Air Pollutants

Listed.

SARA 302/304

None known.

SARA 311/312

Classification: Delayed (chronic) health hazard.

California Proposition 65**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.**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) 47000µg/day (inhalation)
4-methylpentan-2-one	Yes	Yes	No	No

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	New York	Pennsylvania
Ethyl Alcohol	X	X		X
Alcohol	X			
Propylene glycol	X			
1,2-Propanediol	X			X
Denatured alcohol		X		X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	-
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	*2	2	0	-

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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