Safety Data Sheet

Issue Date: 06-Apr-2014 **Revision Date:** 09-Feb-2016 **Version 2**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name United-300 Mud Remover

Other means of identification
SDS # UNITED-300

Recommended use of the chemical and restrictions on use
Recommended Use Mud Remover
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 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless liquid **Physical State** Liquid **Odor** Slight scent

Classification
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Flush with plenty of cool water for at least 15 minutes. If irritation persists, call a physician or poison control center.

Skin Contact Wash with soap and water. If irritation develops, call a physician or poison center.

Inhalation Remove to fresh air. Apply CPR if needed. Call a physician if irritation persists.

Ingestion Do not induce vomiting. Call a physician.

Most important symptoms and effects

Symptoms May cause eye irritation. Prolonged or repeated contact may cause temporary skin irritation. Large amounts may cause respiratory irritation to sensitive individuals. Swallowing large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray (fog). Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
None known.

Hazardous Combustion Products When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen and ammonia.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Small spills: Flush to sewage drain. This product may cause slippery conditions, rinse thoroughly. Large spills: Flush to sewage drain. This product may cause slippery conditions, rinse thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze, as the container may split or rupture. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Incompatible Materials Oxidizers such as bleach. Material reacts slowly with iron, copper and aluminum resulting in metal corrosion and product degradation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic acid 124-04-9	TWA: 5 mg/m^3	-	-

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses recommended.

Skin and Body Protection Chemical resistant gloves recommended for prolonged exposure.

Respiratory Protection Normally not required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Colorless liquid	**Odor**	Slight scent
Color	Colorless	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	5.5-6.5	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None	
Evaporation Rate	1	(Water = 1)
Flammability (Solid, Gas)	Liquid-Not applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.025	(Water = 1)
Water Solubility	Miscible in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	None	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid
Incompatible Materials.

Incompatible Materials
Oxidizers such as bleach. Material reacts slowly with iron, copper and aluminum resulting in metal corrosion and product degradation.

Hazardous Decomposition Products
When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen and ammonia.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. May cause irritation.

Skin Contact Avoid contact with skin. Prolonged or repeated contact may cause temporary irritation.

Inhalation Do not inhale. Large amounts may cause respiratory irritation to sensitive individuals.

Ingestion Do not ingest. Large quantities (more than few ounces) may cause upset stomach, diarrhea, nausea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Adipic acid 124-04-9	-	-	> 7.7 mg/L (Rat) 4 h > 31 mg/L (Rat) 1 h

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 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not determined.

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

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

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated.

IATA Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:
TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Adipic acid 124-04-9	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Adipic acid	5000 lb			X

US State Regulations

California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Adipic acid 124-04-9	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	0	0	0	B

Issue Date: 17-Oct-2014
Revision Date: 09-Feb-2016
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 a 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

Safety Data Sheet

Issue Date: 26-Jan-2012 **Revision Date:** 28-May-2015 **Version 2**

1. IDENTIFICATION

Product Identifier

Product Name United 487 ResPOND

Other means of identification

SDS # UNITED-487

Recommended use of the chemical and restrictions on use

Recommended Use Pond Restorer and Phosphate Reducer

Uses Advised Against For institutional and industrial 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 Tan **Physical State** Powder **Odor** Neutral

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Hazard Statements

Non-Regulated Material.

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition
The product contains no substances which, at their given concentration, are considered to be hazardous to health.

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components: Non-Regulated Material

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Rinse opened eye for several minutes under running water.
Skin Contact	Generally the product does not irritate the skin.
Inhalation	Supply fresh air; consult doctor in case of complaints.
Ingestion	If swallowed and symptoms occur, consult a doctor.

Most important symptoms and effects

No Symptoms	No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO_2), extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical
If incinerated, product will release the following: Carbon oxides, Sodium Oxides, Calcium Oxides, and Phosphorous Oxides.

Protective equipment and precautions for firefighters
Wear self contained breathing apparatus for fire fighting pressure- demand, and fully protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid breathing dust. Avoid formation of dust. Wear dust mask.
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Uncontaminated spillage can be returned to container. Small Spills: Uncontaminated spillage can be returned to the container. Absorb unusable product with suitable material and dispose of in accordance with current local or state disposal regulations. Large Spills: Uncontaminated spillage can be returned to the container. Absorb unusable product with suitable material and dispose of in accordance with current local or state disposal regulations. Rinse direct contact area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling No special measures required. Safety glasses and gloves are recommended. After handling, always wash hands thoroughly with soap and water.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store away from strong acids, strong oxidizing agents, and moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
All ventilation should be designed in accordance with OSHA standard. Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses are recommended.

Skin and Body Protection Not required. May use gloves.

Respiratory Protection Not normally required. May use dust mask.

General Hygiene Considerations Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder		
Appearance	Tan free flowing powder	**Odor**	Neutral
Color	Light Brown	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	Not applicable	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not applicable	
Flash Point	None to boiling	
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	
Water Solubility	Soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Product does not self-ignite	
Decomposition Temperature	Not determined	
Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	0 %	

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
Keep out of reach of children. Incompatible products.

Incompatible Materials
Strong oxidizing agents such as bleach. Strong acids.

Hazardous Decomposition Products
Carbon oxides. Sodium Oxides. Calcium Oxides. Phosphorous Oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information The toxicity of this product is unknown

Eye Contact No irritating effect.

Skin Contact No irritating effect.

Inhalation No irritating effect.

Information on physical, chemical and toxicological effects

Symptoms This product when used and handled according to specifications does not have any harmful effects according to the experience and the information provided to us.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The hazards for the aquatic environment are unknown.

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
Not known to be hazardous to water.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Small quantities can be disposed of with household waste.

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

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture.

SARA Section 355, Section 313
None of the ingredients are listed.

TSCA
None of the ingredients are listed.

Proposition 65 Chemicals known to cause cancer
None of the ingredients are listed.

National Regulations
The product is subject to be labeled according with the prevailing version of the regulations of hazardous substances.

State Right to Know
Trade Secret: 90-99%
Trade secret:<2.5%
All ingredients are listed.

16. OTHER INFORMATION

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

Issue Date: 26-Jan-2012
Revision Date: 28-May-2015
Revision Note: New format

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End of Safety Data Sheet

Safety Data Sheet

Issue Date 21-Jan-2015 **Revision Date:** 24-Feb-2015 **Version** 1

1. IDENTIFICATION

Product Identifier

Product Name United 556 ZYME-TREAT

Other means of identification

SDS # UNITED-556

Recommended use of the chemical and restrictions on use

Recommended Use WWT Super Concentrate Enzyme-Based Grease Pre-Digester.
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

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Appearance Light green liquid **Physical State** Liquid **Odor** Light Cimarron (cinnamon-like)

Unknown Acute Toxicity
10.5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop, seek medical attention.

Skin Contact Wash with soap and water. Get medical attention if irritation occurs.

Inhalation Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Rinse mouth. Drink plenty of water. Seek medical attention immediately.

Most important symptoms and effects

Symptoms May cause skin and eye irritation. When heated, mists of this product may irritate nasal passages. Ingestion of large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea, and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Foam. Carbon dioxide (CO2). Water.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx).

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Spills may be slippery.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up This product is biodegradable. Flush to sewage drain. Rinse area thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store away from heat and incompatible materials. Keep from freezing.

Incompatible Materials Oxidizers such as bleach.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s).

Appropriate engineering controls

Engineering Controls Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses are recommended.

Skin and Body Protection If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use.

Respiratory Protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Light green liquid	**Odor**	Light Cimarron (cinnamon-like)
Color	Light green	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	7-8	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None	Tag Closed Cup
Evaporation Rate	1	(Water = 1)
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	17.5 mm Hg	
Vapor Density	Not determined	
Specific Gravity	0.990	(1=Water)
Water Solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	

Property	**Values**	**Remarks • Method**
Dynamic Viscosity	Not determined	

Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content	None

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Keep out of reach of children.

Incompatible Materials
Oxidizers such as bleach.

Hazardous Decomposition Products
When strongly heated, as in a fire, this product may produce oxides of nitrogen and carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-

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 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined

Unknown Acute Toxicity 10.5% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not determined

Persistence/Degradability
Not determined

Bioaccumulation
Not determined

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	Not regulated
IATA	Not regulated
IMDG	Not determined

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 311/312 Hazard Categories
This material, as supplied, does not contain any substances subject to the requirements of SARA Sections 311/312 (40 CFR 370).

SARA 313
None

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene Glycol 57-55-6	X		X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	0	0	0	B

Issue Date 21-Jan-2015
Revision Date: 24-Feb-2015
Revision Note New format

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End of Safety Data Sheet

Safety Data Sheet

Issue Date 21-Jan-2015 **Revision Date:** 24-Feb-2015 **Version** 1

1. IDENTIFICATION

Product Identifier

Product Name United 756 LIFT-ZYME

Other means of identification

SDS # UNITED-756

Recommended use of the chemical and restrictions on use

Recommended Use Wastewater Treatment for Sanitary collection Systems enzyme-Based Grease Pre-Digester

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

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Appearance Light green liquid **Physical State** Liquid **Odor** Light Cimarron (cinnamon-like)

Unknown Acute Toxicity

10.5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop, seek medical attention.

Skin Contact Wash with soap and water. Get medical attention if irritation occurs.

Inhalation Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Rinse mouth. Drink plenty of water. Seek medical attention immediately.

Most important symptoms and effects

Symptoms May cause skin and eye irritation. When heated, mists of this product may irritate nasal passages. Ingestion of large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea, and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Foam. Carbon dioxide (CO2). Water.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
None known.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Spills may be slippery.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up This product is biodegradable. Flush to sewage drain. Rinse area thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store away from heat and incompatible materials. Keep from freezing.

Incompatible Materials Oxidizers such as bleach.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s).

Appropriate engineering controls

Engineering Controls Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses are recommended.

Skin and Body Protection If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use.

Respiratory Protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Light green liquid	**Odor**	Light Cimarron (cinnamon-like)
Color	Light green	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	7-8	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None	Tag Closed Cup
Evaporation Rate	1	(Water = 1)
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	17.5 mm Hg	
Vapor Density	Not determined	
Specific Gravity	0.990	(1=Water)
Water Solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	

Safety Data Sheet

Issue Date 10-Feb-2014 **Revision Date:** 04-Jun-2015 **Version** 2

1. IDENTIFICATION

Product Identifier

Product Name United 976 UNITED CAIROX®

Other means of identification

SDS # UNITED-976

Recommended use of the chemical and restrictions on use

Recommended Use Granular Permanganate.

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

Oxidizing solid	Category 2
Acute Toxicity	Category 4
Aquatic Toxicity (acute)	Category 1
Aquatic Toxicity (chronic)	Category 1

Label elements

Signal word DANGER

Hazard statements

May intensify fire, oxidizer
Harmful, if swallowed
Very toxic to aquatic life with long lasting effects
Keep away from heat/sparks/open flames/hot surfaces. –No smoking
Keep/Store away from clothing/combustible materials.
Do not breathe dust
Wear protective gloves/protective clothing/eye protection/face protection
In case of fire: Use water for extinction
Dispose of contents/container to appropriate places.
Avoid release to the environment.

Appearance Odorless dark purple granular **Physical State** Granular **Odor** Odorless

Human and Environmental Hazards
Contact with combustible material may cause fire.
Harmful if swallowed.
Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
This substance is hazardous in the European Union according to the latest adaptations to Regulations (EC).

Other Hazards

Eye Contact
Potassium Permanganate is damaging to eye tissue on contact. It may cause burns that result in damage to the eye.

Skin Contact
Momentary contact of solution at room temperature may be irritating to the skin, leaving brown stains. Prolonged contact is damaging to the skin. Concentrated solutions at elevated temperature and crystals are damaging to the skin.

Inhalation
Acute inhalation toxicity data are not available. However, airborne concentrations of potassium permanganate in the form of dust or mist may cause damage to the respiratory tract.

Ingestion
Potassium Permanganate, if swallowed, may cause burns to mucous membranes of the mouth, throat, esophagus, and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%	Symbol	Risks
Potassium Permanganate	7722-64-7	>97.5	Xn N O	8,22,50/53

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing the entire surface. Do not attempt to neutralize chemically. Seek medical attention immediately. Note to physicians: Decomposition products are alkaline. Insoluble decomposition product formed is brown colored manganese dioxide.

Skin Contact Immediately wash contaminated areas with water. Remove contaminated clothing or footwear. Wash clothing and decontaminate footwear before reuse. Seek medical attention immediately.

Inhalation Remove person from contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

Ingestion Never give anything by mouth to an unconscious or convulsing person. If person is conscious give large quantities of water. Seek medical attention immediately.

Not to Physician For inhalation, consider oxygen. Avoid gastric lavage or emesis. Decomposition products are alkaline. Insoluble decomposition product formed is brown colored manganese.

Most important symptoms and effects

Symptoms No information available.

5. FIRE-FIGHTING MEASURES

NFPA* Hazard Signs
Health Hazard 1 = Materials that under emergency conditions, can cause significant irritation.
Materials that on the skin could cause irritation.

Flammability Hazard 0 = Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone and sand.

Instability Hazard 0 = Materials that in themselves are normally stable, even under fire conditions.

Special Hazard OX = Oxidizer
***National Fire Protection Association 704 (USA)**

Suitable Extinguishing Media
Use large quantities of water. Water will turn pink to purple when in contact with potassium permanganate. Dike to contain. Do not use dry chemicals, CO_2, or foams, because they are not effective.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash hands thoroughly with soap and water after handling potassium permanganate. Do not eat, drink or smoke when working with potassium permanganate. Wear proper protective equipment. Remove clothing if it becomes contaminated. Provide sufficient mechanical and/or local exhaust to maintain exposure below the TLV/TWA.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in accordance with NFPA 430 requirements for the Storage of Class II oxidizing materials. Protect containers from physical damage. Store in a cool, dry area in closed containers. Segregate from acids, peroxides, formaldehyde, and all combustible, organic, or easily oxidizable materials including antifreeze and hydraulic fluid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV
Potassium Permanganate 7722-64-7	0.2mg/m^3 TWA

Individual protection measures, such as personal protective equipment

Ventilation
Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye/Face
Face shield, goggles, or safety glasses with side shields should be worn. Provide eyewash in working area.

Gloves
Rubber or plastic gloves should be worn.

Other Protective Equipment
Chemically resistant clothing covering arms and legs, and rubber or plastic apron should be worn. **Caution:** If clothing becomes contaminated, wash off immediately.

Respiratory Protection
In cases where overexposure to dust may occur, the use of an approved NIOSH-MSHA dust respirator or an air supplied respirator is advised. Engineering or administrative controls should be implemented to control dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid		
Appearance	Dark purple solid with metallic lust	**Odor**	Odorless
Color	Dark purple	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not determined	
Melting Point/Freezing Point	Starts to decompose with evolution of oxygen (O_2) at a temperature above 150ºC/ 302ºF	Literary Reference
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	As water	

Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	2.7	
Specific Gravity	Not determined	(1=Water)
Water Solubility	6% at 20ºC	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Property	**Values**	**Remarks • Method**
Dynamic Viscosity	Not determined	
Explosive Properties	Explosive in contact with sulfuric acid or peroxide, or readily oxidizable substances.	
Oxidizing Properties	Strong oxidizer.	
VOC Content	None	

10. STABILITY AND REACTIVITY

Reactivity
Not applicable.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
Contact with incompatible materials or heat (150ºC / 302ºF) could result in violent exothermic chemical reaction.

Incompatible Materials
Acids, peroxides, formaldehyde, anti-freeze, hydraulic fluids and all combustible organic or readily oxidizable inorganic materials including metal powders. With hydrochloric acid, chlorine gas is liberated.

Hazardous Decomposition Products
When involved in a fire, potassium permanganate may liberate irritating, poisonous and/or corrosive fumes. Oxides of potassium and manganese may be formed.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Contact with eye is damaging to eye tissues. It may cause severe burns that result in damage to the eye.
Skin Contact	The product may be absorbed into the body through the skin. Major effects of exposure: severe irritation, damage to the skin, and brown staining of skin.
Inhalation	The product may be absorbed into the body by inhalation. Major effects of exposure: respiratory disorder, cough.
Ingestion	Harmful, if swallowed. The estimated lethal human dose is 10 g. Ingestion may cause nausea, vomiting, sore throat, stomach-ache, and eventually lead to a perforation of the intestine. Liver and kidney injuries may occur.

Acute Toxicity
LC 50 inhalation: No data available.
LD 50 dermal: No data available.
LD 50 oral rat: 780 mg/kg male (14 days); 525 mg/kg female (14 days). Harmful if swallowed. ALD: 10g. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. Liver and kidney injuries may occur.

Chronic Toxicity
No known cases of chronic poisoning due to permanganates have been reported. Prolonged exposure, usually over many years, to heavy concentrations of manganese oxides in the form of dust and fumes may lead to chronic manganese poisoning, chiefly involving the central nervous system.

Carcinogenicity
Potassium permanganate has not been classified as a carcinogen by ACGIH, NIOSH, OSHA, NTP, or IARC.

Information on physical, chemical and toxicological effects

California Proposition 65
This product does not contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life.

Persistence/Degradability
Expected to be readily converted by oxidizable materials to insoluble manganese oxides.

Bioaccumulation
Potential for Bioaccumulation is low.

Mobility
Miscible to water.

Other Adverse Effects
Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Offer surplus and non-recyclable product or solutions to a licensed disposal company. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations. This material and its container must be disposed of as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. When it becomes a waste, potassium permanganate is considered a D001 hazardous (ignitable) waste. For disposal of potassium permanganate solutions, follow procedures in Section 6 and deactivate the permanganate to insoluble manganese dioxide. Dispose of it in a permitted landfill. Packaging materials must be triple rinsed to remove all residues prior to re-cycling or disposal as a

14. TRANSPORT INFORMATION

DOT

ID	UN 1490
Proper Shipping Name	Potassium permanganate
Hazard Class	Oxidizer
Packing Group	II
Division	5.1

IATA

ID	UN 1490
Proper Shipping Name	Potassium permanganate
Hazard Class	Oxidizer
Packing Group	II
Division	5.1

IMDG

ID	UN 1490
Proper Shipping Name	Potassium permanganate
Hazard Class	Oxidizer
Packing Group	II
Division	5.1

15. REGULATORY INFORMATION

CLP Classification

This product is hazardous according to the Regulation (EC) No. 1272/2008 on Classification, Labeling and Packaging of Substances and Mixtures (CLP).

Components Analysis – Inventory

Components	Cas-No	US	CA	EU	AU	PH	JP	KR	CN	NZ
Potassium permanganate	7722-64-7	TSCA	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

US Federal Regulations

Ingredient	Cas-No	SARA 302		SARA 313	
		RQ	TPQ	List	Chemical Category
Potassium Permanganate	7722-64-7	No	No	Yes	Yes

Ingredient	Cas-No	CERCLA	RCRA	TSCA 8(d)
Potassium permanganate	7722-64-7	Yes (RQ=100lbs)	D001	No

Ingredient	Cas-No	CWC	TSCA 12(b)	CDTA	SARA 311/312
Potassium Permanganate	7722-64-7	No	No		4545 Kg

Ingredient	Cas-No	Acute	Chronic	Fire	Pressure	Reactivity	Pure/Liquid
Potassium Permanganate	7722-64-7	Yes	Yes	Yes	No	No	Pure

Ingredient	Cas-No	Australian Hazchem	WHMIS	IDL
Potassium permanganate	7722-64-7	IYE	C,D2B	Yes

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	0	0	OX
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	1	0	0	F

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Revision Date: 04-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