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Version 2

1. IDENTIFICATION

Product Identifier

Product Name United 477 BEST SHOT

Other means of identification

SDS # UNITED 477

Recommended use of the chemical and restrictions on use

Recommended Use One Dose Drain Opener With Odor Suppressor
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

Skin Corrosion	Category 1A
Serious eye damage	Category 1
Flammable Liquid	Category 3

Label elements

Signal word DANGER

Hazard statements

Flammable liquid.
 Harmful if swallowed.
 Causes severe skin burns and eye damages.
 May cause cancer.



Appearance Two Phases: Upper layer clear water-white liquid, lower layer dark liquid

Physical State Liquid

Odor Aromatic

Emergency Overview

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames or hot surfaces.
Wear protective gloves/protective clothing/ eye protection/ face protection.
Do not breathe vapors or mist.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using product.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing.
IF SWALLOWED: Call a POISON CENTER or doctor.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Precautionary Statements - Storage

Store according to local rules and regulations.

Hazards not otherwise classified (HNOC)

None known

Other Information

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%
Sulfuric acid, oil of vitriol	7664-93-9	>50
Mineral spirits	8052-41-3	<15

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Immediately flush eyes with cool running water for a minimum of 15 minutes. Check for and remove contact lenses. Hold eyelids away from eye while continuing to flush with water. Get medical help immediately.
Skin Contact	Immediately flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing and shoes. If burning or irritation persists, then continue to flush with water and get medical help. Do not apply any ointments to affected skin unless directed by a physician. Discard heavily contaminated clothing and shoes. Otherwise launder clothes in a separate wash before reuse.
Inhalation	Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. If breathing is difficult, give oxygen and get medical help immediately.
Ingestion	DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth with water and give 1/2 to 1 glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus IMMEDIATELY contact physician or poison control center.

5. FIRE-FIGHTING MEASURES

Flammability of Product

The acid portion of this product is not flammable. The odor blanket portion of this product is classified as a class II combustible liquid

Specific Hazards Arising from the Chemical

If product is released it can react with metals which may liberate hydrogen gas. Hydrogen gas can form an explosive/flammable mixture if concentrated with air. Product reacts violently with water with the evolution of heat. Heated containers may fail, releasing acid and mineral spirits. Hot mineral spirits will produce vapors that support combustion. Avoid spreading burning liquid with water spray used for cooling containers.

Hazardous Combustion Products Thermal decomposition products include sulfur oxides, nitrogen oxides.

Protective equipment and precautions for firefighters

Wear protective clothing and gear with self-contained breathing apparatus. Cool containers of product with water spray. Do not release runoff from fire to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Do not touch or walk through spilled material. Ventilate area. Wear appropriate respirator when ventilation is inadequate, and put on appropriate protective equipment before handling material.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Absorb spill with an inert material and place into plastic waste container. Wash floors and other contaminated surfaces with a neutralizing solution (soda ash or lime). Rinse surfaces with fresh water. Ensure adequate decontamination of equipment following clean-up. Dispose of spill material and clean-up solutions according to all federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not ingest. Do not get into eyes or on skin or clothing. Do not breathe fumes or vapor spray. Use only with adequate ventilation. Do not use or mix with other chemicals. Do not reuse the empty product container. Wash thoroughly after handling this product. Observe all of the label precautions.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed. Keep containers or cases or cases of products in well-ventilated warehouse at storage temperatures between 40°F (4°C) and 100°F (38°C). Keep all food and drink away. Keep out of the reach of children

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric Acid, Oil of vitriol 7664-93-9	TWA: 0.2mg/m ³	TWA: 1mg/m ³ 8h	-
Mineral Spirits 8052-41-3	TWA: 100ppm	100ppm	-

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical splash goggles or face shield is recommended when handling this product. Eye protection is advised even when handling a closed (capped) container.

Skin and Body Protection Chemical resistant gloves, apron and sleeves are recommended when handling this product. Gloves, aprons, etc. are recommended even while handling closed containers.

Respiratory Protection Provide exhaust ventilation to keep airborne concentrations of the vapor below the threshold limit value. If ventilation is inadequate, then operator should wear a NIOSH/MSHA approved air-purifying respirator equipped with an acid gas/fume mist cartridge vapor concentrations up to 10 mg/m³.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms and face thoroughly after handling this product, and before eating, smoking or using the lavatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Aromatic
Appearance	Light brown contents packaged in a plastic container	Odor Threshold	Not determined
Color	Light brown		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	<1		
Melting Point/Freezing Point	Not determined	Literary Reference	
Boiling Point/Boiling Range	355°F/179°C (Odor blanket)		
Flash Point	Not determined		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	1.9 at 100°F (Odor Blanket)		
Vapor Density	>1 (Odor Blanket)		
Specific Gravity	1.81(Lower Phase) 0.76 (Odor Blanket)	(1=Water)	
Water Solubility	Completely Soluble (Lower Blanket) Insoluble (Odor Blanket)		
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	5.5%		

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

None known.

Incompatible Materials

Product is reactive or incompatible with reducing agents/ chemicals, organics, metals, and alkalis. Product reacts vigorously with water. Never pour water into the concentrated acid.

Hazardous Decomposition Products

Sulfur oxide vapors (SO₂, SO₃) may be released when sulfuric acid decomposes.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid	2140 mg/kg (Rat)	-	-
Mineral spirit	>5g/kg (Rat)	-	-

Information on likely routes of exposure**Product Information**

Eye Contact	Corrosive to eyes. Short term eye exposure may cause severe permanent injury or blindness.
Skin Contact	Corrosive to skin. Skin contact may cause skin inflammation, blistering, chemical burns.
Inhalation	Breathing vapors of mist from product may produce severe irritation if the respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure to mists or vapors may produce lung damage, unconsciousness or death.
Ingestion	Very hazardous if ingested. May be fatal if swallowed. May cause burns to mouth, throat and stomach.

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

Inhalation of spray mists can cause cancer. Classified 1 (proven to humans) by IARC - sulfuric acid mist.

Chronic Health Effects

Substance may be toxic to upper respiratory tract, skin, eyes and teeth. Repeated or prolonged exposure can produce chronic eye irritation, skin irritation and respiratory irritation (leading to frequent bronchial infections). Repeated exposure may cause a general deterioration of health by an accumulation in one or more organs.

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	The generation of waste should be avoided or minimized whenever possible. Dispose of non-recyclable waste material via a licensed waste disposal contractor. Disposal of this product or any resulting waste stream should comply with all federal, state and local environmental control regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT	
Proper Shipping Name	Sulfuric Acid
UN Number	UN1830
Packaging Group	II
Hazard Class	8
IATA	Not determined
IMDG	
Proper Shipping Name	Sulfuric Acid
UN Number	UN1830
Packaging Group	II
Hazard Class	8

15. REGULATORY INFORMATION

U.S. Federal Regulations

U.S. Inventory TSCA	All components are listed or exempted.
SARA 305/304/311/312 Extremely Hazardous Substances	Sulfuric Acid
SARA 302/304 Emergency Planning and Notification	Sulfuric Acid
SARA 313 Form R Reporting Requirements	Sulfuric Acid
Clean Water Act (CWA) 311	Sulfuric Acid RQ – 1000lbs
Clean Air Act (CAA) 112 Regulated Toxic Substances	No products were found

State Regulations

California Proposition 65

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Strong inorganic mists containing sulfuric acid.

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	-	-	-	-
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	2	2	p,n,o

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Revision Note	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet