

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

**PRODUCT:** The Purps

**COMPANY NAME:** Undrdog Surface Solutions LLC

**ADDRESS:** 122 Rose Lane, Suite 201, Frisco, TX 75036 United States

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**DEPARTMENT:** Research & Development

**ISSUED/REVISED:** JULY 1, 2020 (ISSUED)

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

HEALTH ENVIRONMENTAL	PHYSICAL
Eye Effects - Category 1 (Serious eye damage)	Flammable Liquid - N/A
Skin Corrosion - Category 1A	Explosives - N/A
Acute Toxicity - Cat 3 (oral )	Flammable Gases - N/A
Cat 3 (inhalation)	Flammable Aerosols - N/A
Cat 3 (dermal)	Oxidizing Gases - N/A
Skin Sensitization - N/A	Gases Under Pressure - N/A
Mutagenicity - N/A	Flammable Solid - N/A
Carcinogenicity- Category 1A	Self-reactive substances - N/A
Reproductive/Developmental- N/A	Pyrophoric solids - N/A
Target Organ Toxicity - N/A	Self-Heating substances - N/A
Toxicity - N/A	Oxidizing Liquids - N/A
Aspiration Hazard - N/A	Oxidizing Solids - N/A
Environmental Hazards - N/A	Organic Peroxides - N/A
Hazardous to the aquatic environment - cat 3	Corrosive to Metal - N/A
	Substances which, in contact with water emit flammable gases - N/A

## DANGER!

**H290** MAY BE CORROSIVE TO METALS

**H301** TOXIC IF SWALLOWED.

**H314** CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

### H318 CAUSES SERIOUS EYE DAMAGE

**H331** TOXIC IF INHALED.



**H350** MAY CAUSE CANCER



**PRECAUTIONARY STATEMENTS GENERAL:**

**P101** If medical advice is needed, have product or label at hand.

**P102** Keep out of reach of children P103 Read label before use.

**PREVENTION:**

**234** Keep only in original containers.

**P261** Avoid breathing dust/fumes/mist/vapors/spray.

**P262** Do not get in eyes, on skin, or on clothing.

**P264** Wash skin thoroughly after handling.

**P270** Do not eat, drink or smoke when using this product.

**P271** Use only outdoors or in a well-ventilated area.

**P280** Wear Protective gloves/protective clothing/eye protection/face protection.

**RESPONSE:**

**P301+P310+P330 IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

**P301 + P330+P331 IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**P303+P361+P353 IF ON SKIN:** Remove/Immediately take off all contaminated clothing. Rinse skin with water/shower.

**P304+P340+P310 IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**P305+P351+P338+P310 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician.

**P363** Wash contaminated clothing before reuse.

**P390** Absorb spillage to prevent material damage.

**STORAGE:**

**P403** Store in a well-ventilated place.

**P405** Store locked up. Keep container tightly closed.

**P406** Store in corrosive resistant container.



**DISPOSAL:**

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT	CAS NUMBER	WEIGHT %
Thioglycolic Acid	68-11-1	≤10
Ethylene Glycol Butyl	111-76-2	≤10
Ammonium hydrogen Fluoride	1341-49-7	≤5
Dodecylbenzen	27176-87-0	≤15

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**4. FIRST AID MEASURES**

**Eye Contact:** Flush immediately with large amounts of clean water for at least 15 minutes; Eyelids should be held away from the eyeball to ensure thorough rinsing. If any irritation persists, seek medical attention.

**Skin Contact:** Rinse area with soap and water. Seek medical attention if any redness or irritation persists. Take off immediately all contaminated clothing.

**Inhalation:** If breathing is difficult or irritating, move to fresh air immediately. If symptoms persist, get medical attention.

**Ingestion:** Rinse mouth. Get immediate medical attention. Give 1% solution in physiological serum (10mL of calcium gluconate 10% in 90 ml of physiological serum. Do not induce vomiting unless directed by medical personnel.

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**5. FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel.  
Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** No special protective action for fire fighters are anticipated.



**Unusual Fire and Explosion:** Fire or excessive heat may produce hazardous decomposition production.

**Combustion Products:** Sulfur containing gases.

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## 6. ACCIDENTAL RELEASE MEASURES

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in sealed container pending a waste disposal evaluation. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this SDS. Advise the environmental protection agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

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## 7. HANDLING AND STORAGE

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Ammonium hydrogen Fluoride 1341-49-7

No specific TLV TEL has been set.

Sulfuric Acid 7664-93-9 PEL (OSHA) 1 mg/m<sup>3</sup>, 8 Hr. TWA

TLV (ACGIH) 1.2 mg/m<sup>3</sup>, 8 Hr. TWA A2 (Sulfuric Acid Contained in strong inorganic acid mists) Ethylene Glycol Monobutyl 111-76-2

ACGIH	Time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL)	5 ppm
NIOSH	Recommended exposure limit (REL)	24 mg/m <sup>3</sup>
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	240 mg/m <sup>3</sup>

**Engineering Controls:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

**Personal Protective Equipment (PPE):** Lab coat, apron, gloves, goggles, eye wash, safety shower.

**Respirator Type(s):** None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Natural Latex, Neoprene, Nitrile, Butyl rubber



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint:	Not available	Lower Flammability Limit:	No data available
Auto-ignition Temperature:	Not available	Upper Flammability Limit:	No data available
Boiling Point:	100°C	Volatile Organic Compound:	N/A
Melting Point:	No data available	Volatile Organic Compound:	N/A
Vapor Pressure:	<0.3 mm Hg @ 25°C	Evaporation Rate (Water=1):	No data available
Vapor Density (Air = 1):	3.4	Viscosity:	Not available
Solubility:	Yes, water 100%	pH:	3 - 4
Pour Point:	Not available	Molecular Weight:	Mixture
Molecular Formula:	Mixture	Spec. Grav. / Density:	8.805 lbs. /gal.
Odor/Appearance:	Pungent acidic /Violet Liquid		

**Respiratory Protection:** Respiratory protection may be required to avoid over-exposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

## 10. STABILITY AND REACTIVITY

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**Reactivity:** This material may be reactive with certain agents under certain conditions.

**Chemical Stability:** Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

**Conditions to avoid:** Contact with water. Reaction with water is exothermic.

**Incompatible materials:** Water-reactive materials, water, organic compounds, strong reducing agents, Acetaldehydes, Amines Hazardous

**Decomposition:** None know.

## 11. TOXICOLOGICAL INFORMATION

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**Signs and Systems of Exposure:** Based on the test data and/or information on the components, this material may produce the following health effects:

**Inhalation:** Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:** Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering,



and itching.

**Eye Contact:** Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Target Organ Effects:** Allergic Skin Reaction (non-photo induced) in sensitive people. Signs/symptoms may include redness, swelling, blistering, and itching.

**Toxicological Data:** If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity			
Name	Route	Species	Value
Sulfuric Acid	Oral	Rat	LD 50 2,140 mg/kg
Sulfuric Acid	Inhalation	Guinea Pig	LC 50 30mg/m3
Sulfuric Acid	Dermal	-	Not available
Ammonium hydrogen Fluoride	Oral	Rat	LD 50 60 - 130 mg/kg
Ammonium hydrogen Fluoride	Inhalation	-	Not available
Ammonium hydrogen Fluoride	Dermal	-	Not available
Ethylene Glycol Butyl	Oral	Guinea Pig	LD 50 1,200 mg/kg
Ethylene Glycol Butyl	Inhalation	Guinea Pig	LD 50 >633ppm, 1 h.
Ethylene Glycol Butyl	Dermal	Guinea Pig	LD 50 >2,000 mg/kg
Dodecylbenzen	Oral	Rabbit	LD 50: 1407 mg/kg
Dodecylbenzen	Inhalation	-	No data available
Dodecylbenzen	Dermal	-	No data available

#### Skin Corrosion/Irritation

Name	Route	Species	Value
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#### Serious Eye Damage/Irritation

Name	Route	Species	Value
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#### Skin Sensitization

Name	Route	Species	Value
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#### Respiratory Sensitization

Name	Route	Species	Value
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#### Germ Cell Mutagenicity

Name	Route	Species	Value
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#### Carcinogenicity

Name	Route	Species	Value
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## Reproductive Toxicity

### Reproductive and/or Developmental Effects

Name	Route	Species	Value
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## Target Organ (s)

### Specific Target Organ Toxicity - Single Exposure

Name	Route	Species	Value
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### Specific Target Organ Toxicity - repeated exposure

Name	Route	Species	Value
Ammonium hydrogen Fluoride	Oral	Rat	Liver, Testes, skeleton, thyroid, NOEL: 1 mg/kg

### Aspiration Hazard

Name	Route	Species	Value
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## 12. ECOLOGICAL INFORMATION

**Overview:** Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

**Persistence:** Biodegradation, adsorption to sediment, and bio-concentration to aquatic organisms should not be significant.

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** Does not biodegrade readily.

**Other Adverse Effect:** No Data

CHEMICAL NAM	CAS #	ECO TOXICITY
Sulfuric Acid	7664-93-9	96 HR LC50 BRACHYDANIO RERIO > 500MG/L 24 HR EC50 DAPHNIA MAGNA 29 MG/L

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Dispose of in accordance with local, state, and federal regulations. Always contact a permitted waste disposer TSD to assure compliance.





**Waste Disposal Code(s):** If discarded, this product is considered a RCRA corrosive waste, DO 0 2.

## 14. TRANSPORT INFORMATION

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Transport information Product is not classified as dangerous for transport.

14.1 UN number Not applicable.

14.2 UN proper shipping name Not applicable.

14.3 Transport hazard class(es) Not applicable.

14.4 Packing group Not applicable.

14.5 Environmental hazards Environmentally hazardous and/or Marine Pollutant:  
No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## 15. REGULATORY INFORMATION

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### **Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 198 6) Sections 311 and 312 311/312 Hazard Categories:**

Fire Hazard - No, Pressure Hazard - No, Reactivity Hazard - No, Immediate Hazard - Yes, Delayed Hazard - No

### **Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community RighttoKnow Act of 198 6) Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

### **Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103**

This material does not contain any components with a CERCLA RQ

### **California Prop. 65**

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

### **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the



U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**This SDS has been prepared to meet the  
U.S. OSHA Hazard Communication  
Standard, 29 CFR 1910.1200**

**16. OTHER INFORMATION**

NFPA Hazardous Classification

Health: 3 Flammability: 0 Instability: 0 Special Hazard: None

The information contained herein is based on data considered to be accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

