

Material Safety Data Sheet



1. Identification of the Substance / Mixture and the Company / Undertaking

Product: Undrdog Waterspot Remover
Company name: Undrdog Surface Products LLC
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Department: Research & Development
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2. Hazards Identification

2.1 Classification of the substance or mixture

Skin Irrit. 5, Eye Irrit. 2A; Acute Toxicity 5.

Pictograms:



Signal word: Warning.

2.2 Label elements

Hazard statements

H313 May be harmful in contact with skin

H316 Causes mild skin irritation

H320 Causes eye irritation

Precautionary statements

General

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

P102 Keep out of reach of children.

P103 Read label before use.

Prevention

P264 Wash thoroughly after handling.

Response

P301 + 312 If Swallowed Call a POISON CONTROL CENTER or doctor/physician.

Rinse Mouth.

P305 +P351+P338 If In eyes Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists get medical advice/attention.

Storage

Store in a well ventilated place. Keep container tightly closed.

Disposal

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

Additional labeling

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3. Composition / Information on Ingredients

3.2 Mixture

CAS / EC No.	REACH No	Name	Weight %	
7732-18-5	-	Water	70 – 100	
67-63-0	-	Isopropyl alcohol	≤1	
63148-62-9	-	Polydimethyl siloxane	≤10	
77-92-9	-	Citric Acid	≤20	
60828-78-6	-	Polyethylene Glycol Trimethylnonyl Ether	≤5	
Proprietary Mixture	-	Fragrance	<1	
Proprietary Mixture	-	Colorant	<1	

4. First Aid Measures

4.1 Description of first aid measures.

General information: When in doubt or if symptoms are observed, get medical advice. Take this safety data sheet with you.

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

Skin contact: Rinse area with soap and water. Seek medical attention if any redness or irritation

persists

- 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.
- Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed:

May cause serious eye irritation.

May cause skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. Firefighting Measures

5.1 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.

Extinguishing media which must not be used for safety reasons:

N/A

5.2 Special hazards arising from the substance or mixture:

N/A

5.3 Advice for firefighters:

No special protective action for firefighters are anticipated.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

See section 8 for recommendations on the use of personal protective equipment.

Avoid breathing vapours.

Avoid contact with skin, eyes and clothing. Keep unprotected people away.

6.2 Environmental precautions:

Prevent accidental entry to sewers and public waters.

Prevent entry to sewers and public waters. Notify authorities if large quantity liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

Small spills: wipe up with absorbent material (dirt, sand, industrial absorbent) and then place in chemical waste containers.

Large spills: Contain large spills with dikes to prevent entry to waterways and sanitary sewers and transfer the material to appropriate containers for reclamation or disposal. Flush residual spill area with large amounts of water. Dispose of all clean up materials in accordance with all applicable federal, state, and local health and environmental regulations.

7. Handling and Storage

7.1 Precautions for safe handling:

Do not get in eyes, on skin or on clothing. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Keep away from heat and flame. Keep operating temperatures below ignition temperatures at all times. Chemical resistant splash goggles and chemical resistant gloves are always recommended when using chemicals.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry, well-ventilated area away from heat, source of ignition and incompatibles.

Do not store below 32 degrees F or above 130 degrees F. Do not store in direct sunlight. Keep away from children.

7.3 Specific end use(s):

See section 1.2.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits:

CAS / EC No.	Name	Limits	Remarks
67-63-0	Isopropyl alcohol	ACGIH PEL 400 ppm ACGIH TWA 200ppm OSHA Z1 PEL 400 ppm – 980 mg/m ³ OSHA Z1A TWA 400 ppm – 980 mg/m ³ OSHA Z1A STEL 500 ppm – 1,225 mg/m ³	-
77-92-9	Citric Acid	ACGIH PEL None listed ACGIH TLV None listed	-

8.2 Exposure controls

Appropriate technical measures:

Work in well-ventilated area.

General information:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Always wash hands, forearms and face. Avoid contact with skin, eyes and clothing.

Personal protective equipment:

N/A

Respiratory protection:

N/A

Hand protection:

Avoid prolonged skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron. A safety shower should be located in the work area.

Eye protection:

Wear chemical safety goggles and face shield. Have eye-wash stations available where eye contact can occur.

Body protection

Wear appropriate protective clothing.

Measures to avoid environmental exposure:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Occupational exposure limits EH40:

Physical state:	Liquid
Colour:	Milky white
Odour:	No scent
Melting point/freezing point:	Not relevant/no data
Boiling point:	≥ 95°C
Flammability:	Not relevant/no data
Lower and upper explosion limit:	Not relevant/no data
Flash point:	No flash point
Auto-ignition temperature:	Not relevant/no data
Decomposition temperature:	Not relevant/no data
pH:	6 ± .5
Kinematic viscosity:	Not relevant/no data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	Not relevant/no data
Vapour pressure:	Not relevant/no data
Density and/or relative density:	8.090 lbs. /gal.
Relative vapour density:	Not relevant/no data
Particle characteristics:	Not relevant/no data

9.2 Other information:

None.

10. Stability and Reactivity

10.1 Reactivity:

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4 Conditions to avoid:

None.

10.5 Incompatible materials:

Strong acids and oxidizers.

10.6 Hazardous decomposition products:

None at recommended storage conditions.

11. Toxicological Information

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

Inhalation: Respiratory Tract Irritation. Symptoms may include coughing, shortness of breath.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye Contact: Highly irritating; may also be abrasive.

Ingestion: Gastrointestinal Irritation: Symptoms may include nausea, vomiting and diarrhea. Extreme large oral dosages may produce gastrointestinal disturbances. Calcium deficiency in blood may result in severe cases of ingestion.

Target Organ Toxicity: Single exposure (Globally Harmonized System): No data available.

Target Organ Toxicity: Repeated Exposure (Globally Harmonized system): No data available.

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

Acute Toxicity

Name	Route	Species	Value
Polyethylene Glycol Trim	Oral	Rat	LD 50 3,300 mg/kg
Polyethylene Glycol Trim	Inhalation	-	No data available
Polyethylene Glycol Trim	Dermal	Rabbit	LD 50 : 8,874 mg/kg
Polydimethyl siloxane	Oral	Rat	LD 50 >5000 mg/kg
Polydimethyl siloxane	Inhalation	-	No data available
Polydimethyl siloxane	Dermal	Rat	LD 50 >2008 mg/kg
Isopropyl alcohol	Oral	Rat	LD 50 > 2000 mg/kg
Isopropyl alcohol	Inhalation	Rat	LC 50 > 5000 mg/kg
Isopropyl alcohol	Dermal	Rabbit	LD 50 > 2000 mg/kg
Citric Acid	Oral	Rat	3 mg/kg;
Citric Acid	Eye	Rabbit	750 ug/24H severe
Citric Acid	Dermal	Rabbit	500 mg/24H mild

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
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Aspiration Hazard

Name	Route	Species	Value
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11.2 Information on other hazards:

Endocrine disrupting properties:

The product/substance has no endocrine disrupting properties.

Additional information:

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12. Ecological Information

12.1 Toxicity:	No Toxicity.
12.2 Persistence and degradability:	No data available.
12.3 Bioaccumulative potential:	No data available.

12.4 Mobility in soil:	No data available.
12.5 Result of PBT and vPvB assessment:	No data available.
12.6 Endocrine disrupting properties:	No data available.
12.7 Other adverse effects:	None known.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Because this is produced and shipped in several different sizes as well as domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

15. Regulatory Information

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

Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) 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 Right-to-Know Act of 1986) Section 313

Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372(EPCRA):

Ingredient	C.A.S. No	% by Wt.
Aluminum Oxide	1344-28-1	Trade Secret 10 – 20

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

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Full text of H-phrases as mentioned in section 3:

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Additional information

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.

List of abbreviations:

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration 50%.

PBT: Persistent, bioaccumulative, toxic.

vPvB: very Persistent, very Bioaccumulative.

Acute Tox.: Acute toxicity

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

Ceiling-C: Ceiling value

DGR: Dangerous Goods Regulations (see IATA/DGR)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EmS: Emergency Schedule

Eye Dam. Seriously damaging to the eye

Eye Irrit.: Irritant to the eye

GHS: "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

IATA: International Air Transport Association

IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical instructions for the safe transport of dangerous goods by air

IMDG: International Maritime Dangerous Goods Code

IMDG-Code: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

MARPOL: International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

Met. Corr. Substance or mixture corrosive to metals

NLP: No-Longer Polymer

Ox. Liq.: Oxidising liquid

PBT: Persistent, Bioaccumulative and Toxic ppm Parts per million

Skin Corr.: Corrosive to skin

Skin Irrit.: Irritant to skin

STEL: Short-term exposure limit

TWA: Time-weighted average

UN RTDG: UN Recommendations on the Transport of Dangerous Good

vPvB: Very Persistent and very Bioaccumulative