

MATERIAL SAFETY DATA SHEET

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

PRODUCT: Undrdog Pro +

COMPANY NAME: Undrdog Surface Solutions LLC

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DEPARTMENT: Reserch & Development

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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

HEALTH ENVIRONMENTAL	PHYSICAL
Eye Damage - Category 1, H318 Skin Corrosion - N/A Acute Toxicity - N/A Skin Irritation - Category 2, H315 Mutagenicity - N/A Carcinogenicity- N/A Reproductive/Developmental- N/A Target Organ Toxicity - N/A Toxicity - N/A Aspiration Hazard - N/A Environmental Hazards - N/A Hazardous to the aquatic environment - N/A Specific target organ toxicity - single exposure (Category 3), Respiratory irritation, H335 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336	Flammable Liquid - Category 2, H225 Explosives - N/A Flammable Gases - N/A Flammable Aerosols - N/A Oxidizing Gases - N/A Gases Under Pressure - N/A Flammable Solid - N/A Self-reactive substances - N/A Pyrophoric solids - N/A Self-Heating substances - N/A Oxidizing Liquids - N/A Oxidizing Solids - N/A Organic Peroxides - N/A Corrosive to Metal - N/A Substances which, in contact with water emit flammable gases - N/A

DANGER!

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.





PRECAUTIONARY STATEMENTS GENERAL:

P210 Keep away from heat/sparks/open flames/hot surfaces– No smoking.

P233 Keep container tightly closed.

PREVENTION:

P240 Ground/bond container and receiving equipment.

P241 Use explosion-protected electrical/ventilating/light/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

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

RESPONSE:

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332 + P313: IF SKIN IRRITATION: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P370 + P378: IN CASE OF FIRE: Use dry sand, chemical foam, dry chemical and carbon dioxide for extinction.

STORAGE:

P403 + P233: Store in a well ventilated place. Keep container tightly closed.

P403 + P235: Store in a well ventilated place. Keep cool.

P405: Store locked up.

DISPOSAL:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	WEIGHT %
Alkoxy silane Oligomer	-	5-45
Alkoxy siloxane Compound	-	5-45
Ethanol	64-17-5	10-30
Butyl alcohol	71-36-3	10-30
Tetraethyl Orthosilicate	78-10 -4	0.1-10

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Do not rub eyes and seek medical advice if irritation develops or persists.

Skin Contact: Remove contaminated clothing. Wash off with soap and plenty of water. If irritation occurs and persists, contact a doctor.

Inhalation: Remove from exposure and move to fresh air. Get medical attention if feel unwell.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

Advise a doctor: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use strongly water fog. As it may spread the fire.

Special hazards arising from the substance or mixture: Carbon oxides.

Advice for firefighters: Wear self-contained breathing apparatus and standard fire fighting equipment for firefighting..

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: For large amounts: Pump off product. For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations..

7. HANDLING AND STORAGE

Handling: Use in well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Avoid contact with skin and eyes. Avoid breathing concentrated vapor. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. See section 2 for more information..

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Butylalcohol: OSHA PEL= 100 p m ; 300 mg/cm³.

Engineering Controls: Provide enough ventilation, safety shower and eye wash fountain.

Personal protective equipment:

Respiratory Protection: Respiratory protection is not required. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

Eyes Protection: Use safety glasses if in-eye risk exists.



Body Protection: Wear suitable protective suit if necessary.

Hands Protection: Handle with chemical protective gloves (such as Butyl rubber gloves).

Other Protections: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	Partition coefficient:	N/A
Odor:	Weak odor	Explosion Limits in Air - Upper:	15%-Ethanol
pH:	N/A	Explosion Limits in Air - Lower::	3.3%-Ethanol
Flashpoint:	<23°C-close cup	Viscosity:	N/A
Auto-ignition Temperature:	N/A		
Boiling Point:	No data available		
Melting Point:	No data available		
Vapor Pressure:	N/A		
Vapor Density (Air = 1):	N/A		
Solubility:	Partly soluble in water		
Density:	N/A		

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature and pressure..

Hazardous reactions: None hazardous reactions known.

Incompatibility (Materials to Avoid): Strong oxidizing materials.

Conditions to Avoid: Keep away from open flames, hot surfaces, and sources of ignition.

Hazardous Decomposition and/or Combustion Products: No known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Butylalcohol:

LD50-rabbit-dermal-3400mg/kg

LD50-rat-oral-790mg/kg

LC50-rat-inhalation-8000ppm/4H

Skin Corrosion/Irritation: Causes skin irritation.



Serious Eye Damage/Eye Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: ARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity- Single Exposure (Globally Harmonized System): Butylalcohol: May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): Asbestos fibre: Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: No aspiration hazard.

Potential Health Effects: Inhalation: Avoid inhaling concentrated vapor. Inhalation large amount of vapor may cause respiratory irritation. May cause drowsiness or dizziness.

Skin Contact: May cause skin irritation.

Eye Contact: Cause eye damage if liquid in-eye.

Ingestion: Not an expected route of exposure. May be harmful if ingested.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: No data available.

Bioaccumulative potential: No data available.

Persistence and Degradability: No data available

Environmental Adverse Effects: No data available

Other adverse effects: Do not let product enter drains and water source.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Observe all federal, state, and local environmental regulations. Offer surplus and non-recyclable products to a licensed disposal company.

Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.



14. TRANSPORT INFORMATION

U.S. DOT Information

DOT-UN Number: 1993 **DOT-Class:** 3

DOT-Shipping Name: FLAMMABLE LIQUID, N.O.S. (contain Ethanol, Butyl alcohol)

DOT-Packing Group: II

ADR/RID Information

ADR-UN Number: 1993

ADR-Class: 3

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (contain Ethanol, Butyl alcohol)

ADRPacking Group: II

IATA/ICAO Information

IATA-UN Number: 1993

IATA-Class: 3

IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (contain Ethanol, Butyl alcohol)

IATA-Shipping Name: II

IMO/IMDG Information

IMDG-Marine Pollutant: No

IMDG-UN Number: 1993

IMDG-Class: 3

IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S.(contain Ethanol, Butylalcohol)

IMDG-Packing group: II

15. REGULATORY INFORMATION

International Regulations

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

No information available.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Abbreviations:

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds

pH - Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

OSHA- Occupational Safety and Health Administration

NTP - National Toxicology Program

ARC- International Agency for Research on Cancer

ACGIH - The American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous Goods by Road

RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IMO - International Marine Organization

Further Information:

-This safety data sheet was prepared in accordance with UN GHS Rev.8 and OSHA Hazard Communication Standards (29 CFR 1910.1200).

-This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.