

Material Safety Data Sheet



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

Product: Undrdog Window Coating
Company name: Undrdog Surface Products LLC
Product: 122 Rose Lane, Suite 201, Frisco, 75036, Texas, USA
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Department: Research & Development
Issued / Revised: Oct 10 2023

2. Hazards Identification

2.1 Classification of the substance or mixture

Flam. Liq. 3; H226, Eye Irrit. 2; H319, STOT SE 3; H336.

Pictograms:



Signal word: Warning.

Contains: Isopropanol.

2.2 Label elements

Hazard statements

- H226** Flammable liquid and vapour
- H226** Causes serious eye irritation
- H226** May cause drowsiness or dizziness

Precautionary statements

General

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.

Prevention

- P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P280** Wear protective gloves/eye protection.

Response

- P305 + 351 + 338 IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage

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

Disposal

- P501** Dispose of contents/container to an approved waste disposal plant.

Additional labeling

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2.3 Other hazards

Contains no PBT or vPvB substances according to REACH No 1907/2006. This mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. Composition / Information on Ingredients

3.2 Mixture

CAS / EC No.	REACH No	Name	Content %	Classification CLP
67-63-0 / 200-661-7	-	Isopropanol	25-50	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336.

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: Seek fresh air if discomfort persists.

Skin contact: Wash skin thoroughly with soap and water

Eye contact: Bathe the eye with running water for several minutes. Make sure you flush under the upper and lower eyelids. If eye irritation persists get medical advice/attention.

Ingestion: Rinse mouth with water and spit out. Do not induce vomiting unless directed to do so by medical personnel.
Call a POISON CENTRE/doctor if you feel unwell.

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

May cause serious eye irritation.
May cause drowsiness or dizziness.

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

Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing media

CO₂, alcohol resistant foam, extinguishing powder, water spray

Extinguishing media which must not be used for safety reasons:

Water jets should not be used, since they can spread the fire.

5.2 Special hazards arising from the substance or mixture:

Flammable liquid and vapour.
In case of fire, harmful decomposition products may be formed, do not inhale

5.3 Advice for firefighters:

Do not enter fire area without proper protective equipment, including respiratory protection. Cool exposed containers with water spray.

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.

Shut off all heat/sparks/open flames/hot surfaces. No smoking.

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:

The product is flammable, use non-sparking tools/equipment.

Small spills: wipe up with absorbent material (e.g. cloth, fleece).

Large spills: use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in suitable closed container for disposal, according to local regulations. Then rinse the spillage site with plenty of water.

Dispose of in accordance with section 13.

6.4 Reference to other sections:

See section 8 for personal protection.

See section 13 for disposal.

7. Handling and Storage

7.1 Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment. Avoid direct contact with the product.

See section 8 for recommendations on the use of personal protective equipment. Avoid direct contact with the product.

Do not breathe vapours. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use non-sparking tools. Take action to prevent static discharges.

Keep container tightly closed when not in use.

Do not eat, drink or smoke when using this product. Wash hands and all exposed areas thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated location. Keep out of reach of children.

Keep container tightly closed. Keep only in original container.

7.3 Specific end use(s):

See section 1.2.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits EH40:

CAS / EC No.	Name	Limits	Remarks
67-63-0	Isopropanol	Short-term value: 400 ppm, 999 mg/m ³ Long-term value: 500 ppm, 1250 mg/m ³	-

DNEL / PNEC:

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8.2 Exposure controls

Appropriate technical measures:

Work in well-ventilated area.

Airborne concentrations must be kept as low as possible. Use for example an exhaust system if the normal air flow in the work room is not sufficient.

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:

Only CE-marked personal protection equipment should be used.

Respiratory protection:

In case of inadequate ventilation, use respiratory protection with filter A/P2.

Hand protection:

Wear impervious gloves. Gloves must conform to EN 374.

Option: Nitrile gloves.

Breakthrough time ≥ 480 min.

Thickness: >0.40 mm.

Eye protection:

Wear tightly safety goggles. EN 166.

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. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Occupational exposure limits EH40:

Physical state:	Liquid
Colour:	Colourless
Odour:	Product specific
Melting point/freezing point:	Not relevant/no data
Boiling point:	Not relevant/no data
Flammability:	Not relevant/no data
Lower and upper explosion limit:	Not relevant/no data
Flash point:	>26°C
Auto-ignition temperature:	Not relevant/no data
Decomposition temperature:	Not relevant/no data
pH:	Not relevant/no data
Kinematic viscosity:	~7
Solubility:	Not relevant/no data
Partition coefficient n-octanol/water:	Not relevant/no data
Vapour pressure:	Not relevant/no data
Density and/or relative density:	Not relevant/no data
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:

None known if used and storage as recommended.

10.4 Conditions to avoid:

Keep away from heat/sparks/open flames/hot surfaces. Frost.

10.5 Incompatible materials:

Strong oxidizing agents, strong acids, strong bases, strong reducing agents.

10.6 Hazardous decomposition products:

None at recommended storage conditions.

11. Toxicological Information

11.1 Information on hazard classes

Occupational exposure limits EH40:

Acute toxicity:	Not classified Isopropanol: Oral – LD50 – Rat: 5840 mg/kg Dermal – LD50 – >2000 mg/kg
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific target organ toxicity - single exposure:	May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

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:	Not classified. Isopropanol: Fish – LC50 – 96 h.: 9640 mg/L
12.2 Persistence and degradability:	Isopropanol: readily biodegradable.
12.3 Bioaccumulative potential:	No data available.
12.4 Mobility in soil:	No data available.
12.5 Result of PBT and vPvB assessment:	This mixture does not meet the criteria for PBT or vPvB according to Regulation.
12.6 Endocrine disrupting properties:	The product/substance has no endocrine disrupting properties.
12.7 Other adverse effects:	None known.

13. Disposal Considerations

13.1 Waste treatment methods:

Avoid release to the environment.

Dispose of in accordance with internal procedures and rules. The coding of a waste stream is based on the application of the product by the consumer – end-user.

EWC: 20 01 29* detergents containing dangerous substances.

Contaminated packing: Properly cleaned container is disposed of according to packaging material, otherwise for incineration. Or: 15 01 10* packaging containing residues of or contaminated by dangerous substances.

14. Transport Information

This product is classified as dangerous to transport.

	ADR/RID	IMDG/IMO
14.1 UN number or ID number	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isopropanol)	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
14.3 Transport hazard class(es)	3	3
14.4 Packing group	III	III
14.5 Environmental hazards- MF	No F-E, S-E	No F-E, S-E
Other information	LQ: 5 L. TUNNEL: D/E	LQ: 5 L. TUNNEL: D/E

14.6 Special precautions for user:

Not relevant.

14.7 Maritime transport in bulk according to IMO instruments:

Not relevant.

15. Regulatory Information

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

Current ADR regulations 2023. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Regulation (EU) 2016/425 of 9 March 2016 on personal protective equipment. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EC regulation No 2020/878. CLP regulation No 1272/2008. REACH regulation 1907/2006. GB CLP.

Additional information:

People under the age of 18 must not be exposed to this product. Council Directive 94/33/EC.

15.2 Chemical safety assessment:

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

15. 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

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property 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