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MATERIAL SAFETY DATA SHEET SUPERNATURAL GLASS SEALANT

GENERAL

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Supplier	Dodo Juice Ltd
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Emergency Telephone Number	+44 (0)7403 372247
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1. IDENTITY

Commercial Name	Supernatural Glass Sealant
Product Description	Nano-coating for glass

2. COMPOSITION

Chemical Characterisation	Mixture of alcohol and special ingredients
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HAZARDOUS INGREDIENTS

Component	Propan-2-ol
%	75% min
EINECS/EEC No.	603-117-00-0/200-661-7
CAS No.	67-63-0
Symbol / Risk Phrase	F,Xi: R11, R36, R67
Classification/Symbol	See section 15.



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3. HAZARDS IDENTIFICATION

Health	Degreases skin. Irritating to eyes. Vapours may cause drowsiness & dizziness.
Environmental	Raising overall contamination.
Physical & Chemical/Fire & Explosion	Highly flammable. May form explosive vapour-air mixture.
For materials	Materials should be tested for resistance. May soften plastics.

4. FIRST AID MEASURES

Inhalation	Using approved respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.
Skin Contact	Wash with plenty of soap and water after use. If symptoms occur, seek medical attention. Remove grossly contaminated clothing & launder before re-use.
Eye Contact	Rinse with plenty of water, with eyelids lifted, until irritation subsides. If irritation persists, seek medical advice.
Ingestion	Do not induce vomiting. Drink plenty of water. Keep at rest. Get medical attention.

5. FIRE FIGHTING MEASURES

Fire Fighting Procedures	Use water spray to cool surfaces exposed to fire & to protect personnel. If possible, shut off the source of fuel to the fire.
Fire Fighting Media	Use foam, dry chemical, carbon dioxide (CO ₂) or water spray to extinguish fire.
Special Precautions	Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
Hazardous Combustion Products	Carbon dioxide (CO ₂), carbon monoxide (CO), hydrogen fluoride (HF).



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	See Section 8. Eliminate sources of ignition. Warn occupants in downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, water courses or low areas. Keep public away. Shut off source, if possible to do so without hazard. Advise police if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimize the effect on ground water. Contain spilled liquid with sand or earth. Scrape up with shovels or pails and place in suitable containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. See Section 4 'First Aid Measures', and Section 10 'Stability & Reactivity'.
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7. HANDLING AND STORAGE

Handling	Keep container tightly closed. Close immediately after use. Do NOT handle near an open flame, sources of heat or sources of ignition. DO NOT pressurise, cut, heat or weld containers. Empty product containers may contain product residue. Container can remain hazardous when empty. Continue to observe all precautions.
Storage	Avoid extremes of temperature and store in a cool, well ventilated place away from incompatible materials. Protect material from direct sunlight. Store away from explosive substances and products and oxidisers. Provide sufficient ventilation. Floor must be resistant to solvents. Protect from freezing. Protect from moisture and water.



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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Control Measures/Ventilation	Use outdoors or in an adequately ventilated area. Avoid contact with eyes and skin. Do not eat, drink or smoke while using. Take off contaminated clothing immediately. Do not inhale vapours. Wash hands before breaks and after work.
Occupational Exposure Limits	Propan-2-ol TLV 200ppm
Personal Protection	<p>General advice- the use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum safety precaution, safety glasses and gloves.</p> <p>Respiratory protection- the industrial user or handler, if using in air and exceeding concentration limits, is recommended to use a half-face filter mask to protect against over-exposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type 'A' or similar may be considered for use.</p> <p>Hand protection- when handling this product, it is recommended to wear chemical resistant gloves such as Viton.</p> <p>Eye protection- safety glasses/ goggles.</p>
Environmental Exposure Controls	Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION	
Appearance	Colourless liquid.
Odour	Alcoholic
HEALTH, SAFETY & ENVIRONMENTAL INFORMATION	
pH	Undiluted N/A; 10% aqueous solution: 2
Freezing/Melting Point	-89°C
Boiling Point / Range	83°C
Flash Point	12°C
Ignition temp.	425°C
Explosive Limits in Air	2-12 vol %
Vapour pressure	41.6hPa/20°C
Density	0.79g/ml
Solubility in water	Miscible.
Viscosity	20°C: <5mPas/ 40°C: <5mPas
Solvent content	>75 m%
Vapour density	Heavier than air.

Dodo Juice Ltd is registered in England.
Registered address: 275 Desborough Ave, High Wycombe, Bucks HP11 2TL.
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10. STABILITY AND REACTIVITY

Conditions to Avoid	Heat, sparks, open flames, static charge.
Materials to Avoid	Strong oxidants / oxidising agents.
Hazardous Decomposition Products	In combustion, emits carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL DATA

Inhalation	Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches, drowsiness and dizziness, are anaesthetic and may have other central nervous system effects. TOXIC CONC-LC50 46.5mg/l/4h (inh-rat).
Skin Contact	Frequent or prolonged contact degrades skin and may cause irritation and dermatitis. Low order of toxicity.
Eye Contact	Irritating but does not injure eye tissue.
Ingestion	LD50 4700mg/kg (oral rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity	No negative ecological reactions expected.
Environmental Mobility	Highly volatile and will partition rapidly to air. Not expected to partition to sediment and waste water solids.
Environmental Degradability	Biodegradable.

13. DISPOSAL CONSIDERATIONS

Method	Use certified chemical waste disposal. This product is not suitable for disposal by land fill or via municipal sewers, drains, natural streams or rivers.
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14. TRANSPORT INFORMATION

LAND(RAILWAY/ROAD, SUCH AS RID/ADR)	Class: 3 PG: II UN Number: 1219 Classification code: F1 Transport category: 2 Limited Quantity: LQ4
INLAND WATERWAYS (SUCH AS ADNO)	Classification not done.
SEA (IMDG)	Class: 3 PG: II UN Number: 1219 Marine pollutant: No EMS Number: F-E, S-D Proper shipping name: Isopropanol-solution Risk label: flammable liquid
AIR (ICAO/IATA)	Class: 3 PG: II UN Number: 1219 Proper shipping name: Isopropanol-solution Risk label: flammable liquid Packing instructions: Passenger 305; Cargo 307.

15. REGULATORY INFORMATION

Classification and labelling according to EEC Directives.

Classification/Symbol	HIGHLY FLAMMABLE/ F IRRITANT/ Xi
Hazard Symbols:	 
Risk phrases:	R11 highly flammable. R36 irritating to eyes. R67 vapours may cause drowsiness and dizziness.
Safety Phrases:	S2 keep out of reach of children. S7 keep container tightly closed. S16 keep away from sources of ignition - no smoking. S24/25 avoid contact with skin and eyes. S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S46 if swallowed, seek medical advice immediately and show this container or label.



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16. OTHER INFORMATION

National regulations

VOC content 787.63g/l

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