

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: SMARTSAN D2 SURFACE SANITISER

Product Code: SA4006 3L, SA4020 20L and Wipes

Uses: Surface sanitiser

Restrictions on Use: None identified

Company: SanSmart Ltd

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Emergency Number, 24 hr: 0800 764 766 (0800 POISON) - NZ National Poison Centre

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered as a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.
Classified as a dangerous goods for transport purposes (land, sea and air).

HSNO Classifications:

3.1B Flammable Liquids: high hazard
6.3B Mildly irritating to the skin
6.4A Irritating to the eye

GHS Classifications:

Flammable Liquids Category 2
Skin irritation Category 3
Eye irritation Category 2B



Signal Words: Danger

Hazard Statements

H225 Highly flammable liquid and vapour.
H316 Causes mild skin irritation.
H320 Causes eye irritation.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Isopropyl Alcohol	67-63-0	30 - 60
Other ingredients determined to not be hazardous	-	to 100%

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Section 4 – FIRST AID MEASURES

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

If exposed or if you feel unwell: Call a POISON CENTRE or doctor.

Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact:	IF ON SKIN: Remove all contaminated clothing. Wash with plenty of soap and water. Direct contact may cause irritation in sensitive individuals. If skin irritation occurs: Get medical advice/ attention.
Inhalation:	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
Ingestion:	IF SWALLOWED: Call a POISON CENTRE or doctor. Do NOT induce vomiting. Obtain immediate medical attention.
Notes to physician:	Treat symptomatically and supportively. No specific antidote.

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards:	Containers can build up pressure if exposed to heat and/or fire and may rupture. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back.
Further advice:	On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion. Use water spray to keep fire-exposed containers cool.
Extinguishing media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Do not discharge extinguishing waters into the aquatic environment.
Hazchem Code:	2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills:	Clean up all spills immediately. Remove all sources of ignition. If safe, damaged containers should be placed in a container outdoors, away from all ignition sources. Provide ventilation. Wash with water.
Major spills:	Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal. Wash area down with excess water.

Section 7 – HANDLING AND STORAGE

Handling Precautions:	Read product label before use. Keep out of reach of children. This product is highly flammable. Keep away from heat and open flames/hot surfaces. No smoking. Do not use near an open flame or other ignition source. Use in a well-ventilated area. Avoid breathing vapour. Wash hands with soap and water after handling. Avoid release to the environment.
Storage:	Protect from sunlight. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep container tightly closed. Store locked up.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for product. Exposure standards for constituents (NZ WES);

Material	TWA, mg/m ³	STEL, mg/m ³
Isopropyl Alcohol	983	1230

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Additional Information:	Wash hands before eating, drinking and smoking.
Engineering Controls:	No controls required when handling small quantities. Use with adequate ventilation. Larger quantities: General exhaust is adequate under normal operating conditions. Ventilation, lighting and electrical equipment should be explosion-resistant. Use only non-sparking tools. Take precautionary measures against static discharge.
Protective Equipment:	In an industrial environment: gloves, safety glasses or chemical goggles and protective gloves are recommended. Provide eye baths and safety showers close to areas where splashing may occur. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. In case of inadequate ventilation wear respiratory protection. If TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Clear colourless liquid.
pH:	Not applicable.
Vapour Density:	> 1 (Air =1)
Vapour Pressure, kPa:	4.4
Boiling Point, °C:	About 85
Melting Point, °C:	Not applicable.
Specific Gravity:	About 0.9
Flash Point, °C:	12
Explosion Limit, % v/v:	LEL 2% UEL 12%
Autoignition Temp, °C:	> 450
Solubility:	Miscible in water.

Section 10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
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Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	Isopropyl Alcohol, Oral LD ₅₀ 3,600 mg/kg mouse.
Acute Dermal Toxicity:	Isopropyl Alcohol, Dermal LD ₅₀ 12,870 mg/kg rabbit.
Acute Inhalation Toxicity:	Isopropyl Alcohol, Inhalation LC ₅₀ 73 mg/L/4hr rat. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.
Skin Irritation:	May cause mild skin irritation in sensitive individuals. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Eye Irritation:	Vapours may be irritating to the eye. Contact with eyes is mildly irritating causing short term discomfort.
Respiratory Irritation:	Inhalation of vapour may cause irritation to the nose and throat. The inhalation of large quantities will result in moderate discomfort. Symptoms of over-exposure can include dizziness, nausea, headaches and other central nervous system effects.
Sensitisation:	Not a sensitiser.
Repeated Dose Toxicity:	Repeated inhalation exposure may cause liver degeneration. Prolonged contact with product may result in irritant contact dermatitis.
Additional Information:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

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Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity:	Product is not expected to be ecotoxic. Experimental data on the finished product is not available.
Mobility:	Miscible in water. Volatile.
Persistence/degradability:	Readily biodegradable.
Bioaccumulation:	Not expected to bioaccumulate.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	Product wastes are flammable and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Large quantities should be handled by a suitable disposal facility. Incineration in an authorised facility is suggested.
Container Disposal:	Recycle empty container in an approved recycling stream. Product containers are considered wastes of the same class as the contents and should be disposed of in accordance with applicable regulations.

Section 14 – TRANSPORT INFORMATION

Transport:	Classified as a Dangerous Good for transport purposes.
Proper Shipping Name:	ISOPROPANOL SOLUTION
UN Number:	1219
Dangerous Goods Class:	3
Transport Labels Required:	Class 3 Flammable



Subsidiary Risk:	Not applicable
Packing Group:	II
Marine Pollutant:	No
EMS Number	F-E, S-D
Limited Quantity:	1 L
DG Segregation:	This product is classified as a Dangerous Goods. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

Section 15 – REGULATORY INFORMATION

EPA Approval Number:	HSR006432 Isopropyl Alcohol, 50 - 72% in a non-hazardous diluent.
SDS regulations	This Safety Data Sheet was prepared in accordance with the Preparation of Safety Data Sheets – Code of Practice, (No. HSNO CoP 8-1 09-06), Responsible Care New Zealand (RCNZ)
Inventory Listing:	NZIOC (New Zealand Inventory of Chemicals); All components of this product are listed. AICS (Australian Inventory of Chemical Substances); All components of this product are listed.
Approved Handler:	Not required. Required if > 250 L (in containers > 5 L). Required if > 500 L (in containers up to 5 L).

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Location Test Certificate: Required if > 100 L (in containers > 5 L).
 Required if > 250 L (in containers up to 5 L).

Tracking: This substance is not a tracked substance.

EPA Hsno Controls: Refer to www.epa.govt.nz for information on Controls.

Section 16 – OTHER INFORMATION

Additional information Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	<p>AICS Australian Inventory of Chemical Substances</p> <p>ADG Australian Code for the Transport of Dangerous Goods by Road and Rail</p> <p>CAS Chemical Abstract Service number</p> <p>EMS Emergency Response Procedures for Ships Carrying Dangerous Goods</p> <p>EPA Environmental Protection Agency (New Zealand)</p> <p>GHS Globally Harmonized System</p> <p>IARC International Agency for Research on Cancer</p> <p>IATA International Air Transport Association</p> <p>IMDG International Maritime Dangerous Goods</p> <p>LC₅₀ Lethal Concentration, 50% / Median Lethal Concentration</p> <p>LD₅₀ Lethal Dose, 50% / Median Lethal Dose</p> <p>LEL Lower Explosion Limit</p> <p>mg/m³ Milligrams per Cubic Metre</p> <p>NICNAS National Industrial Chemicals Notification and Assessment Scheme (Australia)</p> <p>NZIoC New Zealand Inventory of Chemicals</p> <p>N.O.S. Not otherwise specified</p> <p>OEL Occupational Exposure Limit</p> <p>PEL Permissible Exposure Limit</p> <p>STEL Short-Term Exposure Limit</p> <p>STOT-RE Specific target organ toxicity (repeated exposure)</p> <p>STOT-SE Specific target organ toxicity (single exposure)</p> <p>TLV Threshold Limit Value</p> <p>TWA Time Weighted Average</p> <p>UEL Upper Explosion Limit</p>
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This SDS summarises our best knowledge of the health and safety hazard information at the date of issue. Since we cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

End of sds.