

Safety Data Sheet

Section 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier	MEDIC SHIELD SURFACE SPRAY DISINFECTANT/SANITISER AEROSOL
Product Code	-
Recommended use	Surface spray disinfectant and sanitiser.
Manufacturer/Supplier	Integra Industries Limited
Address	149 King Edward Street South Dunedin, NZ
Telephone	0800 667 843
Email	info@integraindustries.co.nz
Emergency Phone No	National Poisons Centre 0800 764 766 (0800 POISON) 24 hours

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.

Classified as a dangerous goods for transport purposes.

HSNO Classifications:

2.1.2A	Extremely flammable aerosol
6.3B	Mildly irritating to the skin
6.4A	Irritating to the eye

GHS Classifications:

Flammable aerosol	Category 1
Skin Irritation	Category 3
Eye irritation	Category 2B

Pictograms



Signal Words: Danger

Hazard Statement Codes

H222	Extremely flammable aerosol.
H316	Causes mild skin irritation.
H320	Causes eye irritation.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
2-Propanol	67-63-0	> 60
Didecyl Dimethyl Ammonium Chloride	7173-51-5	< 2
Hydrocarbon propellant (LPG - propane, butane)	68476-85-7	20 - 40
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.

Call a POISON CENTRE (0800 764 766) or doctor if you feel unwell.

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice.
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	Ingestion is unlikely to occur with product packaging. If swallowed, do NOT induce vomiting. Obtain immediate medical attention.
Exposure symptoms	Prolonged and repeated exposure may cause Irritant effects. Symptoms may include defatting of the skin and dermatitis.
Notes to physician	Provide general supportive measures and treat symptomatically.

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards	Containers can build up pressure if exposed to heat and/or fire and may explode. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Contents may float and be re-ignited on surface water.
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. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.
Hazchem Code	2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	Clean up immediately. Remove all sources of ignition. Provide ventilation. Keep unnecessary and unprotected personnel out of the area. Wear appropriate personal protective equipment.
Environmental Precautions	If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Prevent entry of split material into drains or water courses. If material enters drains, advise emergency services.
Methods for Cleaning Up	Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal. Wash area down with excess water. Clean up in accordance with all applicable regulations.

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 spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use outdoors or in well-ventilated area. Avoid breathing spray. Wash hands with soap and water after handling. In case of inadequate ventilation wear respiratory protection.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Store locked up.

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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
Ethanol	1880	-
LPG (Liquefied petroleum gas – butane, propane)	1800	-

Additional Information

Wash hands before eating, drinking smoking and using the lavatory and at the end of the working period.

Engineering Controls

No controls required when handling small quantities. Use with adequate ventilation.

Larger quantities: General exhaust is adequate under normal operating conditions. Ventilation equipment should be explosion-resistant. De-energise electrical equipment before using.

Protective Equipment

In an industrial environment: gloves, safety glasses or chemical goggles are recommended. 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.
Odour	Characteristic odour.
pH	Not applicable.
Vapour Density	> 1 (Air =1)
Vapour Pressure, kPa	300 - 600
Boiling Point, °C	Not applicable.
Melting Point, °C	Not applicable.
Specific Gravity	Not applicable.
Flash Point, °C	< 0 (propellant)
Explosion Limit, % v/v	LEL 1.2% UEL 9.5%
Autoignition Temp, °C	Not applicable
Solubility	Miscible with water.

Section 10 – STABILITY AND REACTIVITY

Stability

Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Hazardous polymerisation will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

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Health Hazard Summary	This product may have the potential to cause adverse health effects. Use safe work practices to avoid eye and skin contact and inhalation.
Basis for Assessment	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity	Low toxicity: LD ₅₀ estimated to be > 5,000 mg/kg (based on component mixture rules).
Acute Dermal Toxicity	Low toxicity: LD ₅₀ estimated to be > 5,000 mg/kg (based on component mixture rules).
Acute Inhalation Toxicity	Low toxicity: LD ₅₀ estimated to be > 20 mg/L (based on component mixture rules).
Ingestion	May be harmful. Ingestion of large quantities may result in nausea and vomiting.
Skin Irritation	Prolonged/repeated contact may cause irritation and defatting of the skin which can lead to dermatitis.
Sensitisation	Product is not expected to be a contact and respiratory sensitiser.
Eye Irritation	Direct contact is irritating to the eye. Expected to be temporary.
Respiratory Irritation	Inhalation of mists may cause irritation to the respiratory system.
Repeated Dose Toxicity	Repeated and prolonged contact with product may result in irritant 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.


Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity	Slightly harmful in the aquatic environment. However, this does not exclude the possibility that large spills can have a harmful or damaging effect on the environment.
Mobility:	Product is volatile and will rapidly evaporate to the air.
Persistence/degradability	Expected to rapidly biodegrade.
Bioaccumulation	Not expected to bioaccumulate.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal	Product wastes should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Incineration in an authorised facility is suggested.
Container Disposal	Recycle empty container if possible. Product containers are also considered wastes of the same class of 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. Class 2.1 should not be loaded on the same vehicle as Classes 1, 3 (where both are in bulk), 4, 5, and 7. They may be loaded with Classes 3, 6, 8, 9, foodstuffs and foodstuff empties.
Proper Shipping Name	Aerosols
UN Number	1950
Dangerous Goods Class	2.1
Transport Labels Required	Class 2 Flammable
	
Subsidiary Risk	Not applicable
Packing Group	Not applicable

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Marine Pollutant	No
EMS Number	F-D, S-U
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

SDS regulations	Prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice July 2017.
Inventory Listing	All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
Approved Handler:	2.1.2A - Required for quantities greater than 3,000 litres (aggregate water capacity).
Location Test Certificate:	2.1.2A - Required for quantities greater than 3,000 litres (aggregate water capacity).
Tracking:	This substance is not a tracked substance.
EPA Approval Number	HSR002515 Aerosols (Flammable) Group Standard 2017.
EPA Hsno Controls:	Refer to www.epa.govt.nz for information on Controls. This substance is to be managed using the conditions specified in an applicable Group Standard.

Section 16 – OTHER INFORMATION

Additional information	<p>Personal Protective Equipment Guidelines:</p> <p>The recommendation for protective equipment contained is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and engineering controls should be considered before final selection of personal protective equipment is made.</p> <p>Health Effects from Exposure:</p> <p>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. It is anticipated that users will assess the risks and apply control methods where appropriate.</p>																																										
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TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit

The information contained in this Safety Data Sheet is provided in good faith and is believed to be correct as at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining it's appropriateness for a particular purpose. The Proprietor makes no representation as to the accuracy or comprehensiveness of the information. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of the use of the product are therefore assumed by the user and we expressly disclaim all warranties of any kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Appropriate warnings and safe handling procedures should be provided to handlers and users.

End of sds.