1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER	
1.1. Product (material) name:	Micro Defence Surface Spray
1.2. Other names:	Hospital Grade Disinfectant (previously AUST L 279402)
1.3. Recommended use:	Cleaning/disinfecting hard surfaces
1.4. Supplier:	Caronlab Australia Pty Ltd
1.5. Address:	148-150 Victoria St, North Geelong, 3215, Victoria, Australia
1.6. Phone:	(03) 5227 4999
1.7. Fax:	(03) 5227 4950
1.8. Email:	info@caronlab.com.au
1.9. Emergency Contacts:	Poisons Information Centre (Australia) 13 11 26
2. HAZARDS IDENTIFICATION	
2.1. Hazard classification:	Non-hazardous according to NOHSC criteria.
2.2. Risk phrase(s):	R36 Irritating to eyes
2.3. Safety phrase(s)	SO2 Keep out of reach of children S26 In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

3. INGREDIENTS

Ingredient	CAS number	Concentration
Aqua	7732-18-5	>60%
Lactic Acid	79-33-4	10%
Citric Acid	77-92-9	3%
Malic Acid	6915-15-7	3%
Succinic Acid	110-15-6	<10%

Other ingredients not classified as hazardous according to NOHSC to 100%

4. FIRST AID MEASURES	
4.1. Description of necessary first aid measures	
Ingestion:	Immediately make victim drink water (two glasses at most). Consult a physician.
Eye:	Flush with copious amounts of water for at least 15 minutes including under eyelids. Assure adequate flushing by separating eyelids with fingers. If person is wearing contact lenses, remove them prior to flushing. Call a physician.
Skin:	No special precautions required. Non hazardous
Inhalation:	Avoid direct inhalation of mist. Remove to fresh air if inhaled. If breathing becomes difficult, call a physician.
4.2. Medical Attention And Special Treatment	
First Aid Facilities:	A source of clean water should be available in the work area for flushing eyes and skin.
Comments:	None
5. FIRE FIGHTING MEASURES	
5.1. Suitable extinguishing media:	Dry chemical, carbon dioxide, foam or water may be used. Sand / earth can be used on small fires.
5.2. Hazards from combustion products:	During a fire irritating and toxic gases maybe produced by combustion or thermal decomposition.
5.3. Special protective precautions and equipment for fire fighters:	Move exposed containers from fire areas if possible. When fighting fires involving significant quantities of this product, fire fighters should wear safety footwear, non-flammable gloves, overalls, hat, goggles and self-contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES	
6.1. Emergency procedures:	Minor Spill: Non-hazardous. No special requirements. Product is non-toxic and non-hazardous if it enters waterways. Major Spill: As above
6.2. Methods and materials for containment and clean up:	Rinse if metallic surface to avoid surface corrosion. Use operator discretion. Wear appropriate protective equipment.
6.3 Environmental precautions:	Dispose of materials in accordance to local and national laws.
7. HANDLING AND STORAGE	
7.1. Precautions for safe handling:	Keep out of reach of children. Observe precautions found on label. Handle in accordance with good industrial hygiene and safety practice. Wash face and hands thoroughly with soap and

	water after use and before eating. Avoid contact with eyes. Avoid extreme temperatures during transport.
7.2. Conditions for safe storage, including any incompatibilities:	Store in a cool, dry well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed when not in use. Ensure the storage condition comply with the local and national regulations.
7.3 Handling temperatures:	<100°C
7.4 Recommended materials:	HDPE plastic container (Class 2)
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1. National exposure standards	None allocated
8.2. Biological limit values	None allocated
8.3. Engineering controls	Use in a well-ventilated area to avoid formation of mist in air which may irritate respiratory tract. Product is non-toxic and non-hazardous.
8.4. Personal protective equipment	Gloves may be used to minimise contact. Safety glasses recommended
9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1. Appearance:	Clear, colourless aqueous solution
9.2. Odour:	Practically odourless
9.3. pH:	1.4 – 2.0 (20°C)
9.4. Freezing point:	0°C
9.5. Boiling point:	100°C
9.6. Evaporation rate:	Not determined
9.7. % Volatile:	Not applicable
9.8. Solubility in water:	Infinitely soluble in water
9.9. Specific gravity:	1.04 -1.08 g/mL
9.10. Flammable materials information:	
flash point and method of detecting flash point; upper and lower flammable (explosive) limits in air; and ignition temperature.	Not applicable Not determined Not determined
9.11. Viscosity at room temperature:	Liquid
10. STABILITY AND REACTIVITY	
10.1. Chemical Stability:	Stable under normal conditions
10.2. Conditions to avoid:	Avoid contact with strong oxidizing agents
10.3. Incompatible materials:	oxidizing agents
10.4. Hazardous decomposition products:	Combustion may yield large amounts of oxides of carbon, smoke, incomplete combustion products, flammable hydrocarbons.
10.5. Hazardous reactions:	Refer to sections 5 and 7
11. TOXICOLOGICAL INFORMATION	
11.1. Likely routes of exposure:	Skin, eyes, inhaled.
11.2. Health effects from the likely routes of exposure:	
11.2.1. Acute	No specific toxicological data is available.
Ingestion:	Non-toxic, non-carcinogenic. Acute toxicity in rats LD 50 >3000mg/kg live weight.
Eye:	May cause abrasive irritation to the eyes if they come into contact with the product. Slight corneal iris injury may cause moderate redness.
Skin:	Not expected to be an irritant.
Inhalation:	Not expected to be an irritant.
11.2.2. Chronic	No long term effects are known.
11.3. Other Information:	None
12. ECOLOGICAL INFORMATION	
12.1. Ecotoxicity:	Non-toxic, not expected to be harmful to aquatic or terrestrial organisms.
12.2. Persistence and degradability:	Readily biodegradable
12.3. Mobility:	Unknown
13. DISPOSAL CONSIDERATIONS	

13.1. Disposal methods and containers:	Dispose of waste in accordance with local and state regulations. Contact relevant authority for details.
13.2. Special precautions for landfill or incineration:	As above
13.3. Environmental regulations	Recycle if possible
14. TRANSPORT INFORMATION	
14.1. UN Number:	Not applicable
14.2. UN Proper Shipping Name:	Not applicable
14.3. Class and subsidiary risk:	Not applicable
14.4. Packing Group:	Not applicable
14.5. Special precautions for user:	Not applicable
14.6. Hazchem Code:	Not applicable
15. REGULATORY INFORMATION	
15.1. Regulatory Status:	This product is a hospital grade disinfectant. It complies with the regulations for an Option A Hospital Grade Disinfectant. Previously listed with the TGA, due to regulation changes product no longer requires registration.
16. OTHER INFORMATION	
16.1. Document Information:	Document Issued 04/05/2022 Replaces 110/02/2017
16.2. Additional Information:	The information contained in this SDS is, to the best of Caron Laboratories' knowledge and belief, accurate and reliable as of the date issued. The information is provided without any warranty, expressed or implied regarding its correctness or accuracy. Similarly, no warranty expressed or implied shall be created or inferred regarding the product described in this MSDS and Caron Laboratories Pty Ltd will not assume liability for any loss or damage arising out of the use of this information. It is the user's responsibility to satisfy itself that the product is suitable for its intended use