

PRODUCT SERUM 2000	PRODUCT CODE 5-212	REVISION DATE 15 August 2026
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NOT A HAZARDOUS CHEMICAL according to the criteria of the Work Health and Safety Regulations (GHS Revision 7). **NOT DANGEROUS GOODS** according to the ADG Code.

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier	SERUM 2000
Other means of identification	Product code 5-212 (5-212-04 case of 4 x 3.785 L; 5-212-05 18.9 L pail). Polymer surface coating (quaternary ammonium organosilane).
Recommended use	Antimicrobial polymer surface coating applied after cleaning to protect surfaces from damage from organic growth (mould stain control) in professional restoration applications. Applied by sprayer.
Restrictions on use	Not for domestic use. Do not allow to freeze (will survive three freeze thaw cycles).
Australian supplier (importer)	Restoration Innovations Pty Ltd 3/22 Industry Drive, Tweed Heads South NSW 2486, Australia Telephone: (07) 5520 2315 (business hours)
Manufacturer	Serum Products, LLC 1355 West Oak Commons Lane, Unit B, Marietta GA 30062, United States of America Telephone: +1 678 290 1880
Emergency telephone number	Poisons Information Centre 13 11 26 (24 hours, Australia wide). Restoration Innovations (07) 5520 2315 (business hours).

SECTION 2 HAZARDS IDENTIFICATION

Classification of the hazardous chemical	Not classified as a hazardous chemical according to the criteria of the WHS Regulations on the available ingredient data. Environmental hazard classes: Hazardous to the Aquatic Environment, Long Term - Category 3 (H412) (environmental hazard classes are not mandatory under the WHS Regulations; DERIVED from the quaternary ammonium organosilane content, see Section 16)
Dangerous goods classification	Not classified as Dangerous Goods according to the ADG Code.

Label elements

No pictogram	Signal word: No signal word Hazard statements H412 Harmful to aquatic life with long lasting effects.
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Precautionary statements - Prevention

- P273 Avoid release to the environment.

Precautionary statements - Disposal

- P501 Dispose of contents and container in accordance with local, state and federal regulations.

Other hazards which do not result in classification	Aerosolised product generated by airless spraying may irritate the eyes, nose and respiratory tract. May cause mild skin and eye irritation on direct contact with the concentrate.
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SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS number	Proportion (% w/w)
Quaternary ammonium organosilane (quat-silane) mixture	Proprietary (complex mixture)	1.44
Proprietary solvent	Proprietary	1 - 5
Water, treated	7732-18-5	Balance to 100 (approximately 97)

Ingredient identities are withheld by the manufacturer.

Ingredients determined not to be hazardous, or present below the cut off concentrations for disclosure, are not listed. Proportions are as stated by the manufacturer.

SECTION 4 FIRST AID MEASURES

General	If exposed or concerned, contact the Poisons Information Centre on 13 11 26 or a doctor.
Inhalation	Remove the person to fresh air. If nasal or respiratory irritation persists, seek medical attention.
Skin contact	Wash the affected area with soap and water. Seek medical attention if irritation or redness persists.
Eye contact	Flush the eye with running water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse the mouth. Give water to drink. Do not induce vomiting. Seek medical attention if gastrointestinal distress occurs.
Most important symptoms and effects, acute and delayed	Eyes: irritation and reddening of the whites of the eye, blurred vision. Skin: possible irritation and redness. Inhalation of high concentrations of mist: nasal and respiratory irritation, coughing. Ingestion: irritation, abdominal swelling, nausea and vomiting.
Medical attention and special treatment	No specific antidote. Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Non flammable. Use any extinguishing media appropriate to the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Non flammable. No specific hazards.
Special protective equipment and precautions for fire fighters	Standard fire fighting protective equipment including eye protection.
Hazchem code	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear eye protection and chemical resistant gloves.
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Environmental precautions	Keep out of waterways, lakes, rivers and oceans. Harmful to aquatic life with long lasting effects.
Methods and materials for containment and cleaning up	Contain and absorb with inert material or recover with a wet vacuum. Collect into labelled containers for disposal in accordance with Section 13. Flush the area with water.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	Use only as directed. Avoid contact with eyes and skin. When spraying with an airless sprayer, avoid breathing the aerosol and wear the personal protective equipment described in Section 8. Remove contaminated clothing immediately and wash before reuse. Wash hands after handling.
Conditions for safe storage, including any incompatibilities	Store in the original container, tightly closed, between 0°C and 48°C. Do not allow to freeze. Do not reuse empty containers.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace exposure standards (Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, November 2025)

Ingredient	CAS number	TWA (8 hour)	STEL / Peak	Notation
No exposure standards are established for the ingredients	-	-	-	-

TWA: time weighted average over an eight hour working day. STEL: short term exposure limit (15 minutes). Peak limitation: not to be exceeded at any time. Sk: absorption through the skin may be a significant source of exposure.

Biological monitoring	No biological exposure standards are established for the ingredients.
Appropriate engineering controls	Provide ventilation to minimise vapour and mist in the work environment. Confine spills immediately to prevent release into the work area.
Eye and face protection	Safety glasses with side shields complying with AS/NZS 1337.1 for small sprayers; full face respirator provides eye protection when airless spraying.
Skin and body protection	Chemical resistant gloves (natural rubber, nitrile, neoprene, butyl or PVC). When airless spraying: waterproof full body protective suit with head and foot covers, chemical resistant gloves and boots, taped at the wrists over the suit and gloves. Discard disposable suits after one use.
Respiratory protection	Airless spraying: full face respirator with organic vapour / acid gas / P3 (P100) cartridges (for example 3M 60926 or equivalent) selected and used in accordance with AS/NZS 1715 and AS/NZS 1716; change cartridges at the manufacturer's recommended frequency. Small hand sprayers: not normally required with adequate ventilation.
Hygiene measures	Wash hands before eating, drinking, smoking or using the toilet and at the end of the work period. Remove contaminated clothing and wash before reuse. Do not eat, drink or smoke in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Clear, colourless liquid
Odour	Odourless

Odour threshold	Not determined
pH	5.5 (neat); 4.5 (1 % solution)
Melting / freezing point	0°C
Boiling point / range	100°C
Flash point	Not applicable (non flammable)
Evaporation rate	< 1 (butyl acetate = 1)
Flammability	Non flammable
Upper / lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	Specific gravity 0.9996 (water = 1)
Solubility in water	Completely miscible with water
Partition coefficient n-octanol/water	Not determined
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
Viscosity	Not determined
Other information	Solids 2.2 %; volatiles 97.5 %; VOC 0.0. Survives three freeze thaw cycles.

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under the recommended storage conditions. Survives three freeze thaw cycles.
Possibility of hazardous reactions	None known.
Conditions to avoid	Repeated freezing.
Incompatible materials	None known.
Hazardous decomposition products	None known under normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin contact, inhalation of aerosol, ingestion.
Acute toxicity data	Product: No data available (manufacturer states not determined).
Skin corrosion / irritation	Possible reddening of the skin from irritation. Not classified (active ingredient content of 1.44 % is below the 10 % cut off for skin irritation).
Serious eye damage / irritation	Irritation and reddening of the whites of the eye. Not classified (active ingredient content is below the 10 % cut off for eye irritation).
Inhalation	High concentrations of aerosol may cause nasal and respiratory irritation and coughing.
Ingestion	Nausea and vomiting; gastrointestinal distress.

Respiratory or skin sensitisation	No data available.
Chronic effects (carcinogenicity, mutagenicity, reproductive toxicity, STOT, aspiration)	No data available.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	No product specific data. Quaternary ammonium organosilane compounds are very toxic to aquatic life; at 1.44 % the mixture is derived as harmful to aquatic life with long lasting effects (Category 3).
Persistence and degradability	The organosilane bonds to treated surfaces; environmental fate data not available.
Bioaccumulative potential	No data available.
Mobility in soil	Completely miscible with water.
Other adverse effects	Do not allow into oceans, rivers, streams or creeks.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and precautions	Follow local or state authority methods for disposal of this material. The product can be neutralised with a small amount of alkaline material. Do not discharge to waterways. Do not reuse empty containers.
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SECTION 14 TRANSPORT INFORMATION

	Road and rail (ADG Code)	Sea (IMDG Code)	Air (IATA DGR)
UN number	Not applicable	Not applicable	Not applicable
Proper shipping name	Not regulated as dangerous goods	Not regulated as dangerous goods	Not regulated as dangerous goods
Transport hazard class	Not applicable	Not applicable	Not applicable
Subsidiary risk	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable
Hazchem code	Not applicable	-	-
Environmental hazards	Not a marine pollutant (Aquatic Chronic Category 3 does not meet the IMDG marine pollutant criteria)	Not a marine pollutant (Aquatic Chronic Category 3 does not meet the IMDG marine pollutant criteria)	Not a marine pollutant (Aquatic Chronic Category 3 does not meet the IMDG marine pollutant criteria)

Label(s) required	None
Special precautions for user	Do not allow to freeze in transit (survives three freeze thaw cycles).
Transport in bulk (IMO instruments)	Not applicable. Not transported in bulk.

SECTION 15 REGULATORY INFORMATION

Poisons Schedule (SUSMP)	Not scheduled. Quaternary ammonium compounds are exempt from Schedules 5 and 6 of the Poisons Standard (June 2026) in preparations containing 5 % or less; this product contains 1.44 %.
Australian Inventory of Industrial Chemicals (AIIC)	The quaternary ammonium organosilane and the proprietary solvent are not identified by the manufacturer; their AIIC status is the manufacturer's representation.
Other regulatory information	Not a hazardous chemical under the WHS Regulations on the available data. Antimicrobial coating: any claims of antimicrobial efficacy may require registration with the APVMA or listing with the TGA depending on the claims made; verify before marketing.

SECTION 16 OTHER INFORMATION

Date of issue / revision	15 August 2026 (Version 2.0)
Supersedes	Restoration Innovations SDS dated 18 June 2023
Basis of preparation	Prepared by Restoration Innovations Pty Ltd as Australian importer from the manufacturer's Safety Data Sheet (Serum Products, LLC, revised 5 December 2025), with hazard classification determined under GHS Revision 7 as adopted by the Work Health and Safety Regulations, using the harmonised classifications and specific concentration limits of the ingredients, the manufacturer's stated composition and physical data (including product pH), and the Safe Work Australia Workplace Exposure Standards for Airborne Contaminants (November 2025). Transport information is given under the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
Key to abbreviations	ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail. AIIC: Australian Inventory of Industrial Chemicals. ATE: acute toxicity estimate. CAS: Chemical Abstracts Service registry number. EC50/LC50/LD50: median effective / lethal concentration / dose. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IATA DGR: International Air Transport Association Dangerous Goods Regulations. IMDG Code: International Maritime Dangerous Goods Code. PG: packing group. STEL: short term exposure limit. STOT: specific target organ toxicity. SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons (Poisons Standard). TWA: time weighted average. WHS: work health and safety.
References	Work Health and Safety Regulations (Commonwealth and harmonised jurisdictions). Safe Work Australia, Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (November 2025). Australian Dangerous Goods Code, Edition 7.9. Standard for the Uniform Scheduling of Medicines and Poisons (current edition). AS-IICRC S520 Standard for Professional Mold Remediation. AS 3780 The storage and handling of corrosive substances. AS 4326 The storage and handling of oxidizing agents. Manufacturer's Safety Data Sheet, Serum Products, LLC.
Training advice	Users should be trained in the safe handling of hazardous chemicals and in the specific application methods for this product, including the personal protective equipment and engineering controls described in Section 8. Restoration technicians should hold appropriate IICRC certification for the work being undertaken.

This Safety Data Sheet has been prepared by Restoration Innovations Pty Ltd in good faith from information provided by the manufacturer and from published sources believed to be accurate at the date of issue. It is intended as a guide to the safe handling, storage, transport and disposal of the product and should not be taken as a specification or a guarantee of properties. Users must satisfy themselves that the product is suitable for their intended use and must comply with all applicable legislation. Restoration Innovations Pty Ltd accepts no liability for any loss, injury or damage arising

from reliance on this document, to the extent permitted by law. This SDS should be reviewed at least every five years or earlier if new information becomes available.

End of Safety Data Sheet