

PRODUCT SERUM SR	PRODUCT CODE 5-674	REVISION DATE 15 August 2026
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HAZARDOUS CHEMICAL according to the criteria of the Work Health and Safety Regulations (GHS Revision 7). **DANGEROUS GOODS** according to the ADG Code.

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier	SERUM SR
Other means of identification	Product code 5-674 (5-674-04 case of 4 x 3.785 L; 5-674-05 18.9 L pail). Alkaline detergent (heavy duty smoke residue remover).
Recommended use	Heavy duty alkaline detergent for the removal of smoke and soot residues from fire damaged structures and contents in professional restoration applications.
Restrictions on use	Not for domestic use. Do not use on delicate paint. Do not allow solutions to dry on painted surfaces.
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	Skin Corrosion / Irritation - Category 1A (H314) Serious Eye Damage / Eye Irritation - Category 1 (H318)
Dangerous goods classification	Classified as Dangerous Goods according to the ADG Code.

Label elements

 GHS05 Corrosion	Signal word: DANGER Hazard statements H314 Causes severe skin burns and eye damage.
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Precautionary statements - Prevention

- P260 Do not breathe mist or spray.
- P264 Wash hands and exposed skin thoroughly after handling.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statements - Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor.
- P363 Wash contaminated clothing before reuse.

Precautionary statements - Storage

- P405 Store locked up.

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	Contains 2-butoxyethanol, which can be absorbed through the skin (Sk notation in the Australian workplace exposure standard). Defatting and irritation of the skin. Highly alkaline (pH 13.5).
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SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS number	Proportion (% w/w)
2-Butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	4 - 8
Sodium hydroxide	1310-73-2	2 - 6
Sodium metasilicate	6834-92-0	2 - 5
Alkyl ether phosphate ester	68130-47-2	1 - 4
Water	7732-18-5	Balance to 100 (approximately 84)

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. Show this Safety Data Sheet to medical personnel.
Inhalation	Remove the person to fresh air and keep at rest. If irritation, coughing or shortness of breath persists, seek medical attention.
Skin contact	Immediately remove contaminated clothing and footwear. Flush the affected skin with plenty of running water for at least 15 minutes. Seek medical attention. Wash contaminated clothing before reuse.
Eye contact	Hold the eyelids apart and flush the eye continuously with running water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention immediately.
Ingestion	Do NOT induce vomiting. Rinse the mouth. Give plenty of water to drink to dilute the product. Seek medical attention immediately.
Most important symptoms and effects, acute and delayed	Eyes: irritation, watering, blurred vision, burning sensation; risk of serious damage. Skin: defatting, irritation, redness and burns with prolonged contact. Inhalation of mist: irritation of the lungs, coughing and burning sensation. Ingestion: irritation and burning of the digestive tract, nausea, abdominal swelling.
Medical attention and special treatment	Contains a water soluble glycol ether solvent and sodium hydroxide. Treat as exposure to a corrosive alkaline detergent. Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Non flammable. Use extinguishing media appropriate to the surrounding fire.
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Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Non flammable. Containers may rupture on heating.
Special protective equipment and precautions for fire fighters	Standard fire fighting protective equipment including self contained breathing apparatus.
Hazchem code	2X

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear chemical resistant gloves, chemical splash goggles and protective clothing. Avoid contact with skin and eyes.
Environmental precautions	Stop the leak if safe to do so. Prevent the liquid from entering sanitary sewers, creeks, streams, lakes and rivers.
Methods and materials for containment and cleaning up	Mop up or vacuum the liquid with appropriate equipment and collect into labelled containers for disposal. Absorb residues with inert material. Neutralise with a mild acid before disposal in accordance with Section 13. Flush the area with water.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes and skin. Avoid breathing mist. Wear chemical resistant gloves and eye protection when handling the concentrate. Do not allow solutions of this product to dry on painted surfaces; do not use on delicate paint. Wash hands after handling.
Conditions for safe storage, including any incompatibilities	Store in the original container, tightly closed, in a cool, dark, dry place between 0°C and 48°C. Do not allow to freeze. Store in accordance with AS 3780 The storage and handling of corrosive substances. Keep away from strong acids. 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
2-Butoxyethanol	111-76-2	20 ppm (96.9 mg/m ³)	STEL 50 ppm (242 mg/m ³)	Sk (skin absorption)
Sodium hydroxide	1310-73-2	Not established	Peak limitation 2 mg/m ³	None

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 exhaust ventilation or other engineering controls to keep airborne concentrations of vapour and mist below the exposure standards. Eyewash facilities should be available in the immediate work area.
Eye and face protection	Chemical splash goggles complying with AS/NZS 1337.1.

Skin and body protection	Chemical resistant gloves (neoprene or nitrile) complying with AS/NZS 2161.10.1. Protective clothing to prevent skin contact; 2-butoxyethanol is absorbed through the skin. Wash contaminated clothing before reuse.
Respiratory protection	Not normally required with adequate ventilation. Where mist is generated or ventilation is inadequate, use a half face respirator with organic vapour / P2 filters (AS/NZS 1716).
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	Yellow liquid
Odour	Glycol ether (butyl) odour
Odour threshold	Not determined
pH	13.5 (neat); 12.2 (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 1.045 (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	1 (manufacturer value; unit not stated)
Other information	Solids 15.6 %; VOC 0.534 (manufacturer value; unit not stated)

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Strong alkaline solution. Reacts with acids.
Chemical stability	Stable under the recommended storage conditions.
Possibility of hazardous reactions	Exothermic reaction with strong acids.
Conditions to avoid	Extreme heat, freezing.
Incompatible materials	Strong acids. Slight corrosive action on aluminium.

Hazardous decomposition products	None known under normal conditions.
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SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin contact, eye contact, inhalation of mist, ingestion. 2-Butoxyethanol is absorbed through the skin.
Acute toxicity data	2-Butoxyethanol (manufacturer data): Oral LD50: 1519 mg/kg Sodium hydroxide (manufacturer data): Oral LD50: 500 mg/kg Alkyl ether phosphate ester (manufacturer data): Oral LD50: 2740 mg/kg Product (DERIVED): Calculated oral ATE for the mixture exceeds 2000 mg/kg; not classified for acute toxicity.
Skin corrosion / irritation	Corrosive (DERIVED: combined sodium hydroxide and sodium metasilicate content of 4 to 11 % exceeds the 5 % cut off for Skin Corrosion Category 1, and the product pH of 13.5 exceeds 11.5). Degreases the skin; irritation and redness on short contact, burns with prolonged contact.
Serious eye damage / irritation	Causes serious eye damage. Irritation to the surface of the eye, watering, blurring and burning sensation.
Inhalation	Mist is irritating to the lungs; coughing and burning sensation.
Ingestion	Irritant and corrosive to the digestive system; burning sensation, nausea.
Respiratory or skin sensitisation	No data available.
Chronic effects (carcinogenicity, mutagenicity, reproductive toxicity, STOT, aspiration)	2-Butoxyethanol: harmful by inhalation, skin contact and ingestion at higher concentrations (Acute Toxicity Category 4 as a substance); not classified as a carcinogen under the WHS Regulations. No product data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	No product specific data. Alkaline; may raise the pH of receiving waters.
Persistence and degradability	2-Butoxyethanol is readily biodegradable. Inorganic components dissociate in water.
Bioaccumulative potential	Not expected to bioaccumulate.
Mobility in soil	Completely miscible with water.
Other adverse effects	Do not allow to enter oceans, lakes, rivers, creeks or streams.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and precautions	Neutralise with a mild acid to pH 7 before disposal. Dispose of in accordance with local, state and federal regulations. Do not allow product to enter drains, sewers or 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	1760	1760	1760

SAFETY DATA SHEET

SERUM SR



Prepared in accordance with the Work Health and Safety Regulations and the Safe Work Australia Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals

Proper shipping name	CORROSIVE LIQUID, N.O.S. (contains sodium hydroxide and sodium metasilicate)	CORROSIVE LIQUID, N.O.S. (contains sodium hydroxide and sodium metasilicate)	CORROSIVE LIQUID, N.O.S. (contains sodium hydroxide and sodium metasilicate) (manufacturer: do not ship by air)
Transport hazard class	8	8	8
Subsidiary risk	None	None	None
Packing group	III	III	III
Hazchem code	2X	-	-
Environmental hazards	Not a marine pollutant	Not a marine pollutant	Not a marine pollutant

Label(s) required	Corrosive (Class 8)
Special precautions for user	Segregate from acids and Class 5.1 oxidising agents. Limited quantity provisions may apply to packages of 5 L or less (ADG Code Chapter 3.4).
Transport in bulk (IMO instruments)	Not applicable. Not transported in bulk.

SECTION 15 REGULATORY INFORMATION

Poisons Schedule (SUSMP)	Schedule 5 - CAUTION (Poisons Standard June 2026: sodium hydroxide in liquid preparations containing 5 % or less with pH above 11.5; the manufacturer states the product contains 3 % sodium hydroxide). Batches containing more than 5 % sodium hydroxide are Schedule 6 - POISON. Label requirements for liquid preparations containing more than 0.5 % sodium hydroxide: first aid statements A, G3, E2 and S1 (Appendix E); warning statements 'Corrosive', 'May produce severe burns' and 'Attacks skin and eyes' and safety directions 'Wear eye protection when mixing or using' and 'Wear protective gloves when mixing or using' (Appendix F).
Australian Inventory of Industrial Chemicals (AIIC)	All ingredients are listed on the AIIC.
Other regulatory information	Hazardous chemical under the Work Health and Safety Regulations. Corrosive substance: storage and handling in accordance with AS 3780.

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. AIIIC: 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