

SAFETY DATA SHEET

SERUM ACCELERATOR



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

PRODUCT SERUM ACCELERATOR	PRODUCT CODE 5-730	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 ACCELERATOR
Other means of identification	Product code 5-730 (5-730-04 case of 4 x 3.785 L; 5-730-05 18.9 L pail). Potassium hydroxide solution.
Recommended use	Alkaline reagent used as an accelerator additive for Serum cleaning products in professional restoration applications.
Restrictions on use	Not for domestic use. Professional use only.
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	Corrosive to Metals - Category 1 (H290) Acute Toxicity (Oral) - Category 4 (H302) 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, GHS07 Exclamation mark	Signal word: DANGER Hazard statements H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
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Precautionary statements - Prevention

- P234 Keep only in original packaging.
- P260 Do not breathe mist or spray.
- P264 Wash hands and exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statements - Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- 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.

SAFETY DATA SHEET

SERUM ACCELERATOR



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- 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.
- P390 Absorb spillage to prevent material damage.

Precautionary statements - Storage

- P405 Store locked up.
- P406 Store in a corrosion resistant container with a resistant inner liner.

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	Reacts with aluminium, zinc, magnesium, copper and other reactive metals to release flammable hydrogen gas. Mixing with water or acids generates heat and may cause spattering. Alkaline solution may raise the pH of surface waters.
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SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS		
Ingredient	CAS number	Proportion (% w/w)
Potassium hydroxide	1310-58-3	1 - 45
Water	7732-18-5	Balance to 100

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 immediately. Show this Safety Data Sheet to medical personnel. Speed is essential following eye or skin contact.
Inhalation	If adverse effects occur, remove the person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek medical attention immediately.
Skin contact	Immediately flush the contaminated skin with plenty of running water for at least 15 minutes. Remove contaminated clothing, jewellery and footwear while flushing. Wash the affected area with soap and water. Seek medical attention immediately. Thoroughly clean and dry contaminated clothing before reuse.
Eye contact	Immediately flush the eyes with a directed stream of running water for at least 15 minutes, forcibly holding the eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing within seconds is essential. 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 stomach contents. Loosen tight clothing. Seek medical attention immediately.
Most important symptoms and effects, acute and delayed	Corrosive to all tissue on contact. Eyes: severe pain, burns, risk of permanent corneal injury and blindness. Skin: immediate burning, possible blistering and deep tissue damage; effects may be delayed. Inhalation of mist: severe irritation of the respiratory tract, difficulty breathing. Ingestion: severe burns to the mouth, throat and gastrointestinal tract; harmful or fatal if swallowed.

Medical attention and special treatment	The absence of visible signs or symptoms of burns does not reliably exclude the presence of tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.
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SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate to the surrounding fire.
Unsuitable extinguishing media	Do not use dry chemical, carbon dioxide, Halon, foam or fire blankets (manufacturer advice).
Specific hazards arising from the chemical	Non combustible. The product itself does not burn but may decompose on heating to produce corrosive and toxic fumes. Reacts with reactive metals such as aluminium, zinc, magnesium and copper to release hydrogen gas, which can form explosive mixtures in air.
Special protective equipment and precautions for fire fighters	Wear self contained breathing apparatus operated in positive pressure mode and full chemical protective clothing. Avoid contact with skin. Move containers from the fire area if this can be done without risk. Cool containers with water.
Hazchem code	2R

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear the personal protective equipment described in Section 8, including chemical splash goggles, chemical resistant gloves and protective clothing. Avoid contact with skin and eyes. Keep unprotected people away.
Environmental precautions	Completely contain spilled material with dikes, sandbags or similar. Keep out of water supplies, drains and sewers. The product is alkaline and may raise the pH of surface waters with low buffering capacity. Report releases to the appropriate authority where required.
Methods and materials for containment and cleaning up	Liquid may be removed with a vacuum truck or absorbed with inert material such as sand or earth and collected into labelled containers for disposal. Neutralise residues with a low grade acid to pH 7. Flush the spill area with water if appropriate. Do not use aluminium equipment.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	Avoid breathing mist or spray. Do not get in eyes, on skin or on clothing. Wear the personal protective equipment described in Section 8. When mixing, add the product slowly to water to minimise heat generation and spattering; never add water to the product. Do not use aluminium fittings, containers or transfer lines as flammable hydrogen gas may be generated. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store and handle in accordance with the WHS Regulations and AS 3780 The storage and handling of corrosive substances. Keep the container tightly closed and properly labelled in a cool, dry, well ventilated area below 37°C. Store locked up. Do not store in aluminium containers. Keep separated from acids, flammable liquids, halogenated compounds and reactive metals (see Section 10). 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)

SAFETY DATA SHEET

SERUM ACCELERATOR



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Ingredient	CAS number	TWA (8 hour)	STEL / Peak	Notation
Potassium hydroxide	1310-58-3	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 general exhaust ventilation. Where mist may be generated, use local exhaust ventilation to keep airborne concentrations below the exposure standard. Eyewash facilities and a safety shower should be available in the immediate work area.
Eye and face protection	Chemical splash goggles complying with AS/NZS 1337.1. A face shield is recommended in addition where splashing is possible.
Skin and body protection	Chemical resistant gloves (nitrile, neoprene or PVC) complying with AS/NZS 2161.10.1. Chemical resistant apron or clothing and footwear. Wash contaminated clothing before reuse.
Respiratory protection	Not normally required with adequate ventilation. Where mist is generated, use a respirator with P2 particulate filters (AS/NZS 1716) selected and used in accordance with AS/NZS 1715.
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	13.5 (neat); 13.0 (1 % solution)
Melting / freezing point	-29°C
Boiling point / range	143°C
Flash point	Not applicable (non combustible)
Evaporation rate	> 1 (butyl acetate = 1)
Flammability	Non combustible
Upper / lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	Specific gravity 1.45 (water = 1)
Solubility in water	Completely miscible with water (heat is generated)
Partition coefficient n-octanol/water	Not determined
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
Viscosity	500 (manufacturer value; unit not stated)

Other information

Solids 45 %; volatiles 55 %; VOC 0.0

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Strong alkali. Reacts violently with acids and reacts with reactive metals to release hydrogen gas.
Chemical stability	Stable under the recommended storage conditions.
Possibility of hazardous reactions	Mixing with water, acids or incompatible materials may cause spattering and release large amounts of heat. Reacts with aluminium, brass, bronze, copper, lead, tin, zinc and other alkali sensitive metals or alloys to form flammable hydrogen gas. Carbon monoxide may form on contact with reducing sugars, food and beverage products in enclosed spaces.
Conditions to avoid	Contact with incompatible materials, uncontrolled dilution, storage in aluminium containers.
Incompatible materials	Acids, flammable liquids, halogenated compounds, aluminium, brass, bronze, copper, lead, tin, zinc and other alkali sensitive metals or alloys. Corrosive action on materials: severe on aluminium.
Hazardous decomposition products	None known under normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin contact, eye contact, ingestion, inhalation of mist.
Acute toxicity data	Potassium hydroxide (manufacturer data): Oral LD50: 214 mg/kg Product (DERIVED): Calculated oral ATE for the mixture at 45 % potassium hydroxide: approximately 476 mg/kg (Acute Toxicity Category 4)
Skin corrosion / irritation	Corrosive. Causes severe burns; immediate burning and possible blistering, with possible long term damage to the epidermis and dermis. The severity of tissue damage depends on concentration, contact time and local tissue conditions; there may be a delay before irritation and other effects appear.
Serious eye damage / irritation	Corrosive. Causes severe burns and permanent corneal damage which may result in blindness.
Inhalation	Mist causes severe irritation of the respiratory tract; short term difficulty breathing with nausea. Long term or heavy exposure could be life threatening.
Ingestion	Harmful if swallowed. Corrosive to the mouth, throat and gastrointestinal tract; large exposures could be fatal.
Respiratory or skin sensitisation	No data available.
Chronic effects (carcinogenicity, mutagenicity, reproductive toxicity, STOT, aspiration)	Not classified as a carcinogen by NTP, IARC or OSHA. No data on mutagenicity or reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

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Ecotoxicity	Moderately toxic to aquatic organisms (manufacturer data): LC50 (mosquito fish) 80 mg/L/96 h; LC50 (fathead minnow) 179 mg/L/96 h; EC50 (Daphnia magna) 60 mg/L/48 h; ErC50 (Selenastrum capricornutum) 61 mg/L/96 h. Alkaline; may raise the pH of surface waters with low buffering capacity. Slight toxicity to terrestrial organisms.
Persistence and degradability	Dissociates into ionic form in the aquatic environment. Natural carbon dioxide slowly neutralises the material.
Bioaccumulative potential	Does not bioconcentrate.
Mobility in soil	Completely miscible with water.
Other adverse effects	Do not discharge to drains, waterways or the marine environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and precautions	Reuse or reprocess if possible. Otherwise neutralise carefully with a low grade acid to pH 7 and dispose of in accordance with local, state and federal regulations. Do not reuse empty containers; dispose of containers in accordance with the same regulations.
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SECTION 14 TRANSPORT INFORMATION

	Road and rail (ADG Code)	Sea (IMDG Code)	Air (IATA DGR)
UN number	1814	1814	1814
Proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION (manufacturer: do not ship by air)
Transport hazard class	8	8	8
Subsidiary risk	None	None	None
Packing group	II	II	II
Hazchem code	2R	-	-
Environmental hazards	Not a marine pollutant	Not a marine pollutant	Not a marine pollutant

Label(s) required	Corrosive (Class 8)
Special precautions for user	Do not transport by air. Segregate from acids, Class 3 flammable liquids and Class 5.1 oxidising agents in accordance with the ADG Code segregation table. Limited quantity provisions may apply to packages of 1 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 6 - POISON (Poisons Standard June 2026: potassium hydroxide, except preparations containing 5 % or less with pH 11.5 or less, or 5 % or less with pH above 11.5 which are Schedule 5). Label requirements for liquid preparations containing more than 0.5 % potassium 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).
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Australian Inventory of Industrial Chemicals (AIIC)	Potassium hydroxide is 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 and the manifest, placarding and notification requirements of the WHS Regulations where threshold quantities are exceeded.

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