

SAFETY DATA SHEET

JosRed Descaling Solution 9.4%

SECTION 01 - IDENTIFICATION

Product identifier	Sulphamic Acid Solution
Other means of identification	Aminosulfonic Acid; SULFAMIC ACID; Sulphamidic Acid
Recommended use of chemical	Used as a sulphonating agent, pH control, hard-water scale removal, bleaching pulp and paper, and textiles.
Supplier name	Ixom Operations Pty Limited trading as LogiChem
Supplier address	Lot 33 Bulong Road Parkeston-Kalgoorlie, Australia PO Box 878 Kalgoorlie WA 6433 Australia
Supplier phone	1800 033 111 / Int. +61 (0) 3 9663 2130
24 Hour emergency phone	1800 033 111

SECTION 02 - HAZARD(S) IDENTIFICATION

Classification	Eye Damage - Category 1 Skin Corrosion - Category 1B Chronic Aquatic Toxicity - Category 3
Signal word	Danger
Hazard statements	H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	P262 - Do not get in eyes, on skin, or on clothing. P281 - Use personal protective equipment as required. Wear suitable protective clothing, gloves and eye/face protection. P303 - IF ON SKIN: wash immediately with plenty of soap and water. P305 - IF IN EYES: rinse immediately with plenty of water and seek medical advice. P391 - Collect spillage.



SECTION 03 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Components</u>	<u>Cas No:</u>	<u>Proportion % w/w</u>
Sulphamic Acid	5329-14-6	9.4% - <10.0%
Proprietary Surfactant	Trade Secret	1%
Water	7732-18-5	Balance %

SECTION 04 - FIRST AID MEASURES

Description of necessary first aid measures	<p>Eye - If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.</p> <p>Ingestion - Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.</p> <p>Inhalation - Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.</p> <p>Skin - If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if</p>
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	material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.
Medical attention / special treatment	Treat symptomatically based on judgement of doctor and individual reactions of patient. Material is strongly acidic and corrosive. Can cause corneal burns.
Symptoms caused by exposure	Not available

SECTION 05 – FIRE FIGHTING MEASURES

Suitable extinguishing media	Not combustible, however, if material is involved in a fire use fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Specific hazards arising from the chemical	Product is a non-flammable liquid. Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. Incompatible with chlorine, cyanide, hypochlorite, hypochlorous acid, metals, sulphur, alkalis and sources of ignition. On burning, will emit toxic fumes, including those of oxides of nitrogen and oxides of sulfur.
Special protective equipment & precautions for fire fighters	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Personnel involved in the clean-up should wear full protective clothing as listed in section 8. Avoid accidents, clean up immediately. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Stop leak if safe to do so. Use clean, non-sparking tools and equipment. Shut off all possible sources if ignition.
Environmental precautions	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Methods and materials for containment and cleaning up.	Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. Neutralise with lime or soda ash. When saturated collect material, transfer to suitable, labelled, dry chemical- waste containers and dispose of promptly as hazardous waste. Wash area down with excess water.

SECTION 07 – HANDLING AND STORAGE

Precautions for safe handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse.
Conditions for Safe Storage (Including Any Incompatibles)	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight. Store away from foodstuffs. Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

SECTION 08 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring	Not available
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Appropriate engineering controls	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal protective equipment (PPE)	Clothing – Chemical-resistant coveralls, splash apron (AS3765/2210). Eyes – Chemical goggles to prevent splashing in the eyes (AS1336/1337). Footwear – Safety footwear (AS3765/2210). Gloves – Elbow length impervious gloves (AS2161). Other – Wear an approved respirator with suitable filter for organic gases and vapours if engineering controls are inadequate (AS1715/1716).

SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to Light Yellow Liquid
Odour	Not available
Odour threshold	Not available
pH	<1
Melting point/freezing point	Not available
Specific gravity (water = 1)	1.06
Boiling point and boiling range	100 °C
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure (hPa @ 20°C)	Not available
Vapour density	Not available
Relative density	Not available
Solubility(ies) (water)	Miscible in water 25 °C
Partition coefficient: n-octanol/water	Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Reacts with alkalis. Corrosive to metals. Hazardous polymerisation will not occur.
Chemical stability	Product is stable under normal conditions of use, storage and temperature. Corrosive Liquid
Conditions to avoid	Avoid foodstuffs, exposure to heat, sources of ignition and open flame.
Incompatible materials	Incompatible with chlorine, cyanide, hypochlorite, hypochlorous acid, metals, sulphur, alkalis and sources of ignition.
Hazardous decomposition products	On burning, will emit toxic fumes, including those of oxides of nitrogen and oxides of sulphur.

SECTION 11– TOXICOLOGICAL INFORMATION

Information on routes of exposure	Eyes – A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury. Ingestion – Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. Inhalation – Breathing in mists or aerosols may produce respiratory irritation Skin – Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
Symptoms related to exposure	Not available
Numerical measures of toxicity	No LD50 data available for the product. For the constituent Sulfamic Acid: Oral LD50 Rat: 3160mg/Kg Oral LD50 Mice: 1312mg/Kg



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Immediate, delayed and chronic health effects from exposure	Not available
Exposure levels	Not available
Interactive effects	Not available
Data limitations	Not available

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	Dispose of in accordance with all local, state and federal regulations.
Disposal of any contaminated packaging	All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Environmental regulations	Dispose of in accordance with all local, state and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN number	2967
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Sulphamic Acid)
Transport hazard class(es)	8 - Corrosive Substances
Subsidiary risk	Not applicable
Packaging group	III
Environmental hazards	Not available
Special precautions during transport	Not available
Hazchem code	2X

SECTION 15 - REGULATORY INFORMATION

AICS name	Not available
Poisons Schedule number	6

SECTION 16 - OTHER INFORMATION

SDS creations date	01 August 2017
Most recent revision date	01 February 2018
Revision number	002 THIS ISSUE NUMBER REPLACES ALL ISSUES
Reason for revision	Annual Update
Contact person	Ixom 1800 033 111

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

END OF SDS