



Infosafe No™	1CHAN	Issue Date : August 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SULFAMIC ACID**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	SULFAMIC ACID	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
<b>Recommended use of the chemical and restrictions on use</b>	Metal and ceramic cleaning, nitrite removal in azo-dye operations, gas-liberating compositions, organic synthesis, analytical acidimetric standard, amine sulfamates, stabilizing agent for chlorine and hypochlorite in swimming pools, bleaching pulp and textiles, catalyst for urea-formaldehyde resins, sulfonating agent, pH control, hard-water scale removal, electroplating and laboratory reagent.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	Sulphamic acid, Amidosulfonic acid, Sulfamidic acid, Sulfaminic acid	
	SULFAMIC ACID LR	SL091
	SULFAMIC ACID AR	SA091

**Other Information**

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

**2. Hazard Identification**

<b>GHS classification of the substance/mixture</b>	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3 Eye Damage/Irritation: Category 2A Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
<b>Pictogram (s)</b>	Exclamation mark, Environment



<b>Precautionary statement – Prevention</b>	P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.
<b>Precautionary statement – Response</b>	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**



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<b>Chemical Characterization</b>	Solid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Sulfamic acid	5329-14-6	98-100 %		

**4. First-aid measures**

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**

<b>Hazards from Combustion Products</b>	May liberate toxic fumes in fire (nitrogen and sulfur oxides).
<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from the fire area. Large fire: Use water spray, fog or foam - Do NOT use water jets. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.
<b>Specific hazards arising from the chemical</b>	Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases.
<b>Hazchem Code</b>	2X
<b>Precautions in connection with Fire</b>	Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection.

**6. Accidental release measures**

<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
<b>Environmental Precautions</b>	Prevent contamination of soil and water.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from oxidizing agents. Store away from acids. Keep containers closed at all times. Store in well ventilated area. Store in a cool, dry place. Store away from sources of heat or ignition.
<b>Corrosiveness</b>	In the presence of water, corrosive to most metals.
<b>Storage Regulations</b>	Refer Australian Standard AS 3780 - 1994 'The storage and handling of corrosive substances'.

**8. Exposure controls/personal protection**



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<b>Other Exposure Information</b>	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m <sup>3</sup> . All atmospheric contamination should be kept to as low a level as is workable.
<b>Appropriate engineering controls</b>	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**9. Physical and chemical properties**

<b>Form</b>	Solid
<b>Appearance</b>	White, crystalline powder.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	205 °C (decomposes)
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity</b>	2.15
<b>pH</b>	1.18 (10 g/l, H <sub>2</sub> O, 25 °C) Aqueous solutions are highly ionized giving pH values lower than solutions of formic, phosphoric, and oxalic acids.
<b>Vapour Pressure</b>	0.0078 hPa
<b>Partition Coefficient: n-octanol/water</b>	log P (o/w): 0.1
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	97.09
<b>Other Information</b>	All the common salts (including calcium, barium and lead) are extremely soluble in water.

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Dust generation. Incompatibles.
<b>Incompatible Materials</b>	Strong oxidisers (ie. nitrates, nitrites, nitric acid), halogens, strong bases, metals with water.
<b>Hazardous Decomposition Products</b>	Ammonia, oxides of sulfur, carbon and nitrogens.



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<b>Possibility of hazardous reactions</b>	In water solutions, the acid material slowly hydrolyzes to form ammonium sulfate and bisulfate.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 (rat): 3160 mg/kg
<b>Ingestion</b>	Swallowing causes irritation and may cause severe burns of the mouth, throat, oesophagus and stomach, lead to death. Can cause sore throat, vomiting and diarrhea.
<b>Inhalation</b>	Inhalation of dust produces extremely destructive irritation to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation and irritation symptoms in the respiratory tract, coughing, shortness of breath, wheezing, sneezing, laryngitis, dyspnoea, headache, nausea and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.
<b>Skin</b>	Causes skin irritation, redness, pain, inflammation and blistering. Severe burns may occur.
<b>Eye</b>	Causes eye irritation, blurred vision, redness, watering, itching, pain and severe tissue burns and eye damage.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Chronic Effects</b>	Severe or over exposure can produce lung damage, choking, unconsciousness or death.

**12. Ecological information**

<b>Ecotoxicity</b>	Harmful effect on aquatic organisms. Harmful effect due to pH shift.
<b>Mobility</b>	Product is water soluble therefore likely to be highly mobile in environment and soils.
<b>Bioaccumulative Potential</b>	No bioaccumulation is to be expected (log P(o/w) < 1)
<b>Environmental Protection</b>	Do not allow product to enter drains, waterways or sewers. Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.
<b>Acute Toxicity - Fish</b>	LC50 (P. promelas): 70.3 mg/l/96 h.
<b>Acute Toxicity - Bacteria</b>	EC10 (Ps. putida): > 1000 mg/l/16 h.

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
<b>U.N. Number</b>	2967
<b>UN proper shipping name</b>	SULFAMIC ACID
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	3.8.8
<b>Packing Group</b>	III
<b>EPG Number</b>	8A1
<b>IERG Number</b>	37

**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	S6

**16. Other Information**



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# Safety Data Sheet

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 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact  
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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