

Infosafe No™ 1CHA1      Issue Date : November 2020      RE-ISSUED by CHEMSUPP

Product Name **SODIUM NITRITE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	SODIUM NITRITE	
<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	
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
<b>E-mail Address</b>	www.chemsupply.com.au	
<b>Recommended use of the chemical and restrictions on use</b>	Diazotization (by reaction with hydrochloric acid to form nitrous acid), rubber accelerators, synthesis of organic products, colour fixative and preservative in cured meats, meat products, fish, pharmaceuticals, photographic reagent, analytical reagent, dye manufacture, oxidizing agent, antidote for cyanide poisoning and laboratory reagent.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	SODIUM NITRITE LR	SL002
	SODIUM NITRITE AR	SA002

### 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 - Acute Hazard: Category 1 Eye Damage/Irritation: Category 2A Oxidizing Solids: Category 3 Acute Toxicity - Oral: Category 3
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H272 May intensify fire; oxidiser. H301 Toxic if swallowed. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.
<b>Pictogram (s)</b>	Flame over circle, Skull and crossbones, Environment



<b>Precautionary statement – Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P220 Keep/Store away from clothing/.../combustible materials. P221 Take any precaution to avoid mixing with combustibles ... P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.
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**Precautionary**

**statement – Response** P301 + P310 IF SWALLOWED: POISON CENTER or doctor/ physician.  
P330 Rinse mouth.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use water spray, alcohol resistant , dry chemical or carbon dioxide for extinction.  
P391 Collect spillage.  
**Precautionary statement – Storage** P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

**4. First-aid measures**

**Inhalation** 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.

**Ingestion** Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek immediate medical assistance.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**

**Specific Methods** Oxidiser solid  
Small fire: Do not use water spray, dry chemicals, CO2 or foam.  
Large fire: Flood fire area with water or fire resistant foam from a protected position. Dam fire control water for later disposal.

**Specific hazards arising from the chemical** Will accelerate burning when involved in a fire. May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases.

**Hazchem Code** 1Z

**Decomposition Temp.** 280 °C

**Precautions in connection with Fire** Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection.

**Other Information** Dangerous fire and explosion risk when heated to 537 °C.

**6. Accidental release measures**

**Spills & Disposal** Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material.  
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat.  
**Dry Spill**  
Use clean non-sparking tools to transfer material (avoid dust generation) to a clean, dry plastic container and cover loosely. Move container from spill area.  
**Small Liquid Spill**

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	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal. Large Liquid Spill SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
<b>Personal Precautions</b>	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid substance contact and generation and inhalation of dust.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from combustible materials. Store away from acids. Keep containers securely sealed and protected against physical damage. Keep container tightly closed and dry, away from direct sunlight and other sources of heat or ignition. Store at room temperature (15 - 25 °C).
<b>Storage Regulations</b>	Refer Australian Standard AS 4326 - 1995 'The storage and handling of oxidizing agents'.

## 8. Exposure controls/personal protection

<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. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
<b>Appropriate engineering controls</b>	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.
<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>	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. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<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 impervious clothing should be worn, preferably with an apron for extra protection. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

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**Hygiene Measures** 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 or slightly yellowish deliquescent crystals or powder.
<b>Odour</b>	Odourless.
<b>Decomposition Temperature</b>	280 °C
<b>Melting Point</b>	271 °C (decomposes)
<b>Boiling Point</b>	320 °C
<b>Solubility in Water</b>	Soluble (820 g/L @ 20 °C).
<b>Solubility in Organic Solvents</b>	Slightly soluble in alcohol and ether.
<b>Specific Gravity</b>	2.168 @ 20 °C
<b>pH</b>	~ 9 (50 g/l, H <sub>2</sub> O)
<b>Vapour Density (Air=1)</b>	2.39 (air=1)
<b>Partition Coefficient: n-octanol/water</b>	log P(o/w): -3.7 (experimentally)
<b>Flammability</b>	Not combustible but assists combustion of other substances.
<b>Auto-Ignition Temperature</b>	490 °C
<b>Explosion Properties</b>	Explodes at 537 °C
<b>Molecular Weight</b>	69.00
<b>Oxidising Properties</b>	Oxidizing Solid: Category 3

## 10. Stability and reactivity

<b>Chemical Stability</b>	Hygroscopic. Very slowly oxidises to nitrate on exposure to air. Decomposed even by weak acids with evolution of brown fumes of N <sub>2</sub> O <sub>3</sub> .
<b>Conditions to Avoid</b>	Strong heating, air and moisture.
<b>Incompatible Materials</b>	Aluminium, ammonia, ammonium salts and ammonium compounds, combustible substances (danger of explosion!), aluminium, butadiene, cellulose, chlorates, cyanides, ethylene oxide, finely powdered metals, hydrazine and derivatives, hypophosphites, iodides, lithium, mercury salts, permanganate, potassium plus ammonia, phthalic acid, phthalic anhydride, strong reducers and strong acids, sodium thiosulfate, sodium amide, sodium disulphite, sodium thiocyanate, sulphites, tannic acid and vegetable astringent concoctions, infusions or tinctures, urea, unsaturated hydrocarbons, wood and organic matter.
<b>Hazardous Decomposition Products</b>	Oxides of carbon, nitrogen and metal oxide fume.
<b>Possibility of hazardous reactions</b>	Mixtures with ammonium salts or cyanides may explode. In contact with reducing agents, may cause fire or explosion.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

**Acute Toxicity - Oral** LD50 (Rat): 158 mg/kg

**Ingestion** Toxic if swallowed. After absorption: nausea, narcosis, cyanosis. After absorption of large quantities: vomiting, unconsciousness, drop in blood pressure, depressed respiration, collapse, methaemoglobinaemia.

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<b>Inhalation</b>	Overexposure to high dust concentrations may result in mucosal irritation, persistent headache, dizziness, nausea, vomiting, cyanosis, coma, convulsions and death.
<b>Skin</b>	May cause skin irritation.
<b>Eye</b>	Causes serious eye irritation.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Health Hazard</b>	The following applies to nitrites/nitrates in general: the following may develop: methaemoglobinaemia. Nitrosamines, which have shown themselves to be carcinogenic in animal experiments.
<b>Chronic Effects</b>	Exposure to nitrites may cause nausea, vomiting, cyanosis and collapse into a coma. Small doses cause a fall in blood pressure, rapid pulse, muscle weakness, headache and visual disturbances. The following applies to nitrites in general: Nitrosamines have shown themselves to be carcinogenic in animal experiments.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecotoxicity</b>	Highly toxic for aquatic organisms.
<b>Persistence and degradability</b>	Methods for the determination of biodegradability are not applicable to inorganic substances.
<b>Bioaccumulative Potential</b>	Behaviour in environmental compartments: Distribution: log P(oct): -3.7 (experimental); No bioaccumulation is to be expected.
<b>Other Precautions</b>	Do not allow to enter waters, waste water, or soil!
<b>Acute Toxicity - Fish</b>	Not classified based on available information. Mortality NOEC (Onchorhynchus mykiss): 0.54 mg/l/96 h.
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia magna): 12.5 mg/l/48 h;
<b>Acute Toxicity - Algae</b>	Desmodesmus subspicatus (green algae)- 100 mg/L - 72 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 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following: Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and Combustible liquids.
<b>U.N. Number</b>	1500
<b>UN proper shipping name</b>	SODIUM NITRITE

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<b>Transport hazard class(es)</b>	5.1
<b>Sub.Risk</b>	6.1
<b>Hazchem Code</b>	1Z
<b>Packing Group</b>	III
<b>EPG Number</b>	5B2
<b>IERG Number</b>	31

## 15. Regulatory information

<b>Regulatory Information</b>	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	S7

## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Empirical Formula &amp; Structural Formula</b>	Na NO2  ...End Of MSDS...

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