

Infosafe No™ 3CH8K Issue Date : November 2021 RE-ISSUED by CHEMSUPP

Product Name **SODIUM BOROHYDRIDE**

Classified as hazardous

1. Identification

GHS Product Identifier SODIUM BOROHYDRIDE

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Other Names	<u>Name</u>	<u>Product Code</u>
	SODIUM BOROHYDRIDE TG	ST161
	SODIUM BOROHYDRIDE LR	SL161

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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

GHS classification of the substance/mixture Substances and Mixtures which, in contact with water, emit flammable gases: Category 1
Eye Damage/Irritation: Category 1
Acute Toxicity - Oral: Category 3
Skin Corrosion/Irritation: Category 1A
Toxic to Reproduction: Category 1

Signal Word (s) DANGER

Hazard Statement (s) H260 In contact with water releases flammable gases which may ignite spontaneously.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child.

Pictogram (s) Flame, Skull and crossbones, Health hazard, Corrosion



Precautionary statement – Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 Handle under inert gas.
P231+P232 Handle under inert gas. Protect from moisture.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
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

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Precautionary statement – Response	<p>protection.</p> <p>P281 Use personal protective equipment as required.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P330 Rinse mouth.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.</p> <p>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P370+P378 In case of fire: Use dry sand, dry chemical, soda ash or lime for extinction.</p>
Precautionary statement – Storage	<p>P402+P404 Store in a dry place. Store in a closed container.</p> <p>P405 Store locked up.</p>
Precautionary statement – Disposal	<p>P501 Dispose of contents/container to an approved waste disposal plant.</p>

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Sodium Borohydride	16940-66-2	100 %

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek immediate medical treatment.
Eye contact	Wash with large amounts of water (luke warm if possible) for at least 15 minutes. Ask victim to look up and down and sideways to wash properly. Seek immediate 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	<p>DO NOT USE WATER OR FOAM.</p> <p>Small fire: Use dry chemical, soda ash, lime or sand. If safe to do so, move undamaged containers from fire area.</p> <p>Large fire: Use DRY sand, dry chemical, soda ash or lime or withdraw and let fire burn. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.</p>
Hazchem Code	4W
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Structural firefighter's uniform may provide limited protection.

6. Accidental release measures

Spills & Disposal	ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within
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at least 25 m. Do not touch or walk through spilled material.
 Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Water spray may be used to knock down vapours or divert vapour clouds. DO NOT GET WATER inside containers or in contact with substance.
 Small spill: Cover with DRY earth, sand or other non-combustible material followed by a plastic sheet to minimise spreading or contact with rain.
 Large spill
 SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling Avoid prolonged or repeated contact with eyes. Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. Prevent all contact with water and with moist atmosphere.

Conditions for safe storage, including any incompatibilities Store in cool place and out of direct sunlight. Keep container tightly closed and dry Store under inert gas.

Storage Regulations Refer Australian Standard AS/NZS 5026-2012 'The storage and handling of Class 4 dangerous goods'.

8. Exposure controls/personal protection

Other Exposure Information 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/m³. 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.

Appropriate engineering controls 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.

Respiratory Protection Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

Eye Protection 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.

Hand Protection 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.

Personal Protective Equipment 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.

Footwear Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

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Body Protection	Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
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

Form	Solid
Appearance	White powder.
Melting Point	400 °C
Solubility in Water	Soluble in water (55 g/l @ 25 °C)
Explosion Limit - Lower	3.02 % (V)

10. Stability and reactivity

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Exposure to moisture.
Incompatible Materials	Oxidising agents, chemically active metals, acids, reacts violently with water.
Possibility of hazardous reactions	Reacts violently with water.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LC50 (rat): 57 mg/kg
Ingestion	Toxic if swallowed. Causes burns.
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May cause inflammation and edema of the larynx and bronchi. Symptoms include spasm, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Skin	Causes skin burns.
Eye	Causes eye burns.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Toxic to Reproduction: Category 1 H360 May damage fertility or the unborn child.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Serious eye damage/irritation	Eye Damage/Irritation: Category 1 H314 Causes severe skin burns and eye damage.
Skin corrosion/irritation	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.

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12. Ecological information

Ecotoxicity No ecological data available for this product.

Environmental Protection Do not allow product to enter drains, waterways or sewers.

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Dangerous Goods of Class 4.3 Dangerous When Wet are incompatible in a placard load with any of the following: - Class 1, Class 2.1, Class 5, Class 7 and Class 8.

U.N. Number 1426

UN proper shipping name SODIUM BOROHYDRIDE

Transport hazard class(es) 4.3

Hazchem Code 4W

Packing Group I

EPG Number 4E3

IERG Number 26

15. Regulatory information

Regulatory Information All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule Not Scheduled

16. Other Information

Literature References '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'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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