

# Sugar Australia SAFETY DATA SHEET – D. NITRO

Document No SA-QA-SD-001



## Section 1: Product and Company Identification

<b>Product name:</b>	<b>D. NITRO</b>
<b>Other names:</b>	D. NITRO UV. Sucrose solution in water
<b>Product Codes/Trade Names:</b>	Not applicable
<b>Recommended use:</b>	As a carbon source in waste water treatment
<b>Supplier:</b>	Sugar Australia Pty Ltd
<b>Address:</b>	265 Whitehall Street, Yarraville, Victoria, 3013, Australia
<b>Web site:</b>	<a href="http://www.sugaraustralia.com.au">www.sugaraustralia.com.au</a>
<b>Telephone:</b>	+61 3 9283 4558
<b>Facsimile:</b>	+61 3 9283 4085

This Safety Data Sheet (SDS) is issued by Sugar Australia Pty Ltd in accordance with National Standards and Guidelines from Safe Work Australia (SWA – formerly ASCC/NOHSC). The information in it must not be altered, deleted or added to. Sugar Australia Pty Ltd will not accept any responsibility for any changes made to its SDS by any other person or organisation. Sugar Australia Pty Ltd will issue a new SDS when there is a change in product specifications and/or Standards, Codes, Guidelines, or Regulations.

## Section 2: Hazard(s) Identification

**Statement of hazardous nature:** This product is classified as non-hazardous according to the health criteria of Safe Work Australia. This product is a well-known ingredient in waste water treatment and this Safety Data Sheet is concerned only with occupational exposures.

## Section 3: Composition/Information on Ingredients

<b>Chemical Name:</b>	<b>Synonyms</b>	<b>Proportion:</b>	<b>CAS Number:</b>
Sucrose		64 – 69%	57-50-1
Water		30 – 36%	7732-18-5

## Section 4: First Aid Measures

<b>Ingestion:</b>	Give water to drink.
<b>Inhalation:</b>	Remove to fresh air.
<b>Skin contact:</b>	Wash thoroughly with soap and water.
<b>Eye contact:</b>	Flush thoroughly with copious amounts of running water. If symptoms persist, seek medical attention.
<b>Advice to Doctor:</b>	Treat symptomatically. People with diabetes may need stabilisation.
<b>First Aid Facilities</b>	Eyewash and normal washroom facilities
<b>Other information</b>	For advice or emergency, contact a Poisons Information Centre or a doctor at once (131 126)

## Section 5: Fire Fighting Measures

<b>Flammability:</b>	Not flammable
<b>Suitable extinguishing media:</b>	Water, dry chemical, carbon dioxide and foam.
<b>Hazards from combustion products:</b>	With heat, product burns/oxidises to form carbon, carbon monoxide and or carbon dioxide, and smoke.
<b>Special protective precautions and equipment for fire fighters:</b>	Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode.
<b>HAZCHEM Code:</b>	Not applicable

### Section 6: Spillage/Accidental Release Measures

<b>Emergency Procedure:</b>	Remove sources of ignition. Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. Wet sweep, vacuum or shovel into suitable labelled containers.
<b>Containment Procedure:</b>	Wash area with water ensuring all wash water is captured and discharged to an approved treatment facility. Notify relevant waste or environmental authority as required by trade waste agreement and/or government legislation.
<b>Clean Up Procedure:</b>	Pump or shovel into containers. Wash area with water.  Dispose as industrial waste by methods approved by local authority guidelines. Note BOD load of sugar solutions in waste water streams.

### Section 7: Handling and Storage

<b>Handling:</b>	No special transport requirements are necessary.  Material can ferment if excessive moisture contamination is allowed.  Fermentation can yield carbon dioxide with possible traces of ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) and if exposed to a spark or flame may result in an explosion. These conditions should be avoided.
<b>Storage:</b>	This product should be stored in its factory packaging in a dry area, away from sources of ignition, oxidising agents and out of moisture. Keep containers closed when not in use.  Localised microbiological deterioration may start in areas where the liquid becomes diluted.

### Section 8: Exposure Controls/Personal Protection

<b>Exposure Standards:</b>	Safe Work Australia Exposure Standard: None Allocated.  Sugar Australia recommendation: Avoid liquid mist generation.
<b>Biological Limit Values:</b>	As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Controls:</b>	
• <b>Ventilation:</b>	General room ventilation should be adequate, but local mechanical ventilation may be required particularly in confined spaces.
• <b>Special Consideration for Repair &amp;/or Maintenance of Contaminated Equipment:</b>	Work areas should be cleaned regularly by wet sweeping or vacuuming.
<b>Personal Protection:</b>	
• <b>Personal Protection:</b>	If engineering controls and work practices are not effective in controlling exposure, then personal protective equipment may be required.
• <b>Skin Protection:</b>	Loose comfortable clothing should be worn. Direct skin contact should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves (PVC coated fabric). Work clothes should be washed regularly.
• <b>Eye Protection:</b>	Safety glasses with side shields, chemical goggles or full face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary to individual circumstances. Eye protection devices should conform to relevant regulations.
• <b>Respiratory Protection:</b>	If engineering controls are not effective in controlling airborne exposure then an approved particulate respirator conforming to Australian / New Zealand Standards

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	AS/NZS 1715 and AS/NZS 1716 should be worn. Respirators should be correctly fitted, maintained in good condition, and kept in clean storage when not in use. Replaceable filters and cartridges should be replaced regularly in accordance with the manufacturers' guidelines and Australian / New Zealand Standards AS/NZS 1715 and AS/NZS 1716.
• <b>Thermal Protection:</b>	Not flammable.
• <b>Smoking &amp; Other Dusts</b>	Sugar Australia Pty Ltd recommends that all work and storage areas be smoke-free zones.

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Colourless to pale yellow liquid
<b>Odour:</b>	Faint caramel odour
<b>pH, at stated concentration:</b>	5.0 – 8.5 (at time of manufacture)
<b>Vapour Pressure:</b>	Not Determined
<b>Vapour Density:</b>	Not Determined
<b>Boiling Point/range (°C):</b>	>105 degrees Celsius
<b>Freezing/Melting Point (°C):</b>	Decomposes 170 to 180 degrees Celsius
<b>Solubility:</b>	Totally miscible
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.31-1.34
<b>Flammable Materials</b>	
<input type="checkbox"/> <b>Flash Point:</b>	Not applicable
<input type="checkbox"/> <b>Flash Point Method:</b>	Not applicable
<input type="checkbox"/> <b>Flammable (Explosive) Limit - Upper:</b>	Not applicable
<input type="checkbox"/> <b>Flammable (Explosive) Limit - Lower:</b>	Not applicable
<input type="checkbox"/> <b>Auto ignition Temperature:</b>	500°C after evaporation of water
<b>Additional Properties</b>	
<input type="checkbox"/> <b>Evaporation Rate:</b>	Not applicable
<input type="checkbox"/> <b>Volatile Organic Compounds Content (VOC):</b>	Not available
<input type="checkbox"/> <b>% Volatiles:</b>	Not available

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal conditions of use and storage
<b>Incompatible Materials:</b>	Incompatible with oxidising agents.
<b>Conditions to avoid:</b>	Heat, flames and other ignition sources.
<b>Hazardous Decomposition Products:</b>	With heat, product burns/oxidises to form carbon, carbon monoxide and or carbon dioxide.
<b>Hazardous Reactions:</b>	Carbon dioxide and carbon monoxide may form when heated to decomposition.

## Section 11: Toxicological Information

<b>Toxicological Data:</b>	Toxicity Data: Non-toxic – a foodstuff Sucrose: LD50 (Ingestion) : 29,700 mg/kg (rat)
<b>Effects: Acute</b>	
<b>Swallowed:</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. If ingested, it may destabilise people with diabetes.
<b>Skin contact:</b>	Skin contact may result in skin irritation.
<b>Eye contact:</b>	Irritating to the eyes and may cause watering and redness.
<b>Effects: Chronic</b>	Repeated skin exposure to the syrup may result in dermatitis.

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## Section 12: Ecological Information

<b>Eco-toxicity:</b>	Non-toxic to aquatic and terrestrial organisms. Sucrose is an oxygen depleting substance in aquatic environments.
<b>Persistence and Degradability:</b>	Not available.
<b>Mobility:</b>	Not available.

## Section 13: Disposal Considerations

Product can be treated as a common waste for disposal to an organic recycler or into a landfill site / wastewater treatment plant in accordance with relevant Authority guidelines. Note Biochemical Oxygen Demand load in waste water streams. Return product to supplier for re-use / recycling if possible. Consult supplier for recycling options. Recycle containers if possible or dispose of in an authorised landfill. Transportation of wet sugar waste may require Waste Transport Certification. Refer to your local Environment Protection Authority.

## Section 14: Transport Information

<b>Proper Shipping Name:</b>	Not applicable
<b>UN number:</b>	Not applicable
<b>DG Class:</b>	Not classified as a Dangerous Good
<b>Subsidiary Risk 1:</b>	Not applicable
<b>Packaging Group:</b>	Not applicable
<b>HAZCHEM code:</b>	Not applicable
<b>Marine Pollutant:</b>	Not a marine pollutant.
<b>Special Precautions for User:</b>	No special transport requirements are necessary
<b>Additional Transport Requirements:</b>	Not classified as Dangerous Goods by the criteria of the Australia Code for the Transport of Dangerous Goods by Road and Rail, International Maritime Dangerous Goods Code and the International Air Transport Association (IATA) Dangerous Goods Regulation.

## Section 15: Regulatory Information

<b>Poisons Schedule:</b>	Not Scheduled
<b>Other:</b>	Not applicable

## Section 16: Other Information

### For further information on this product, please contact:

Sugar Australia Pty Ltd  
265 Whitehall Street Yarraville, Vic, 3013, P O Box 80, Yarraville, Vic, 3013  
**Phone:** +61 3 9283 4558  
**Fax:** +61 3 9283 4085

## Additional Information

### Australia / New Zealand Standards References:

AS/NZS 1336	Recommended Practices for Occupational Eye Protection
AS/NZS 1715	Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716	Respiratory Protective Devices

### Other References:

Safe Work Australia. 10 August 2011.	Preparation of Safety Data Sheets for Hazardous Material, Code of Practice.
Safe Work Australia. 10 August 2011.	Labelling of Workplace Hazardous Chemicals, Code of Practice.
WES	Workplace Exposure Standards for Airborne Contaminants, December 2011, Safe Work Australia.
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th edition, National Transport Commission.

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**Reason for Re-issue:** Format Change. End of 5 year valid status review

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**END OF SDS**