

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name:	NITRO SIBIR AUSTRALIA
Address:	Unit 218, 396 Scarborough Beach Road Osborne Park, WESTERN AUSTRALIA 6017
Telephone:	+61 417772219
Fax:	Not applicable
Emergency:	1800 884 289
Synonyms:	None
Use:	Sensitising agent for POLAR SX and POLAR UX Bulk Emulsions
SDS Date:	March, 2017
TDS:	Not applicable

2. Hazards Identification

Classified as hazardous according to Safe Work Australia: HAZARDOUS CHEMICAL.

NOT classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code). Classified as Dangerous Goods according to the ADG Code **only** for storage and marine transport purposes within Australia.

Classification of the Substance or Mixture:

Acute Toxicity - Oral – Category 3

Acute Hazard to the Aquatic Environment - Category 1

Signal Word: Danger



Skull and Crossbones



Environment

Hazard Statement(s):

H301: Toxic if swallowed.

H400: Very toxic to aquatic life.

Precautionary Statement(s):

Prevention:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

Response:

P301+P310: IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P391: Collect spillage.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents in accordance with national/regional/local regulations.

POISONS SCHEDULE (SUSMP): Schedule 6.

3. Composition / Information on Ingredients

Ingredient	CAS	Proportion
Sodium Nitrite (NaNO ₂)	7632-00-0	10 - <30%
Water	7732-18-5	> 60%

4. FIRST AID MEASURES

- Eye:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre (131126 Australia wide) or a doctor, or for at least fifteen (15) minutes. In all cases of eye contamination, it is sensible to seek medical advice and/or attention.
- Inhalation:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop, seek medical attention.
- Ingestion:** For advice, contact a Poisons Information Centre (131126 Australia wide) or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed, DO NOT induce vomiting.
- Skin:** If contact with skin or hair occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. Continue to flush with water until advised to stop by the Poisons Information Centre (131126 Australia wide) or a doctor.
- Advice to Doctor:** Treat symptomatically.
- First Aid Facilities:** Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Water fog. Prevent this product from entering drains or waterways.
- Hazards from Combustion Products:** May emit toxic gases (nitrogen oxides) when heated to decomposition.
- Precautions for Fire Fighters and Special Protective Equipment:** Evacuate area and contact emergency services. Toxic gases may be emitted in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combatting fire. Use water fog to cool intact containers and nearby storage areas.
- HAZCHEM CODE:** 3Z



6. ACCIDENTAL RELEASE MEASURES

Spillage: If spilt (bulk), use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand or similar). Collect and place in suitable containers for disposal. Clean spill site with water. CAUTION: Spill site may be slippery.

7. HANDLING AND STORAGE

Handling: Before use, carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Storage: Store in a cool, dry, well-ventilated area, removed from combustible materials, acids, reducing agents, amines, oxidising agents and foodstuffs. Ensure containers are adequately labelled, protected from physical damage, and sealed when not in use. Check regularly for leaks or spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Limits: No exposure value assigned for this specific material by SafeWork, Australia.

Biological Limit Values: No biological limit allocated.

Engineering Controls: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical ventilation is recommended.

Respiratory Protection: Not required under normal conditions of use.

Eye Protection: Use splash-proof goggles as described in Australian Standard AS/NZS 1337: Eye Protectors for Industrial Applications. Final choice of appropriate eye/face protection will vary according to individual circumstances.

Hand Protection: Wear gloves of impervious material (PVC or neoprene), conforming to AS/NZS 2161: Occupational protective gloves – Selection, use and maintenance. Final choice of gloves will vary according to individual circumstances.

Body Protection: When using large quantities or where heavy contamination is likely, wear coveralls, rubber boots and a rubber apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow liquid

Odour: Mild odour

Flammability: Non-flammable

Flash Point: Not available

Boiling Point: Not available

Melting Point:	Not applicable
Evaporation Rate:	Not available
pH:	Not available
Vapour Density:	Not available
Specific Gravity:	1.0 g/cm ³
Solubility (water):	Soluble
Vapour Pressure:	Not available
Upper Explosion Limit:	Not applicable
Lower Explosion Limit:	Not applicable
Autoignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Viscosity:	Not available
Partition Coefficient:	Not applicable
% Volatiles:	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended conditions of use.
Conditions to Avoid:	Avoid excessive heat, elevated temperatures, flame, sources of ignition and shock, contamination with combustible materials and incompatible materials.
Chemical Incompatibility:	May form toxic N-nitrosamines (suspected carcinogens) when mixed with amines and acids. Incompatible with acids (eg. Phthalic acid), oxidising agents (eg. Hypochlorites), organics and reducing agents (eg. Disulphides).
Hazardous Decomposition:	May emit toxic gases (nitrogen oxides) when heated to decomposition).
Hazardous Polymerisation:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information:	Toxic. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact, or inhalation or ingestion. Over exposure may cause methemoglobinemia with cyanosis (blue/grey skin colour). May emit toxic N-nitrosamines (suspected carcinogens) when mixed with amines and acids.
Inhalation:	Irritant. No inhalation hazard is anticipated unless product is heated to decomposition or exploded emitting toxic nitrogen oxides.

SAFETY DATA SHEET – CHEMICAL REAGENTS

Over exposure may result in irritation of the nose and throat coughing, chest pain, breathing difficulties, methemoglobinemia and pulmonary oedema. Effects may be delayed.

- Ingestion:** Toxic. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headaches, dizziness, and flushed and sweaty skin. Ingestion of large quantities may result in breathing difficulties, methemoglobinemia with cyanosis and unconsciousness.
- Skin:** Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis.
- Eye:** Irritant. Contact may result in irritation, lacrimation, pain and redness.

TOXICITY DATA

- Sodium Nitrite:** LC50 (Ingestion): 5.5mg/m³/4 hours (rat)
 LD50 (Ingestion): 180 mg/kg (rat)
 LD50 (Intravenous): 65 mg/kg (rat)
 LDLo (Ingestion): 22 mg/kg (child)
 LDLo (Intraperitoneal): 180 mg/kg (mouse)
 LDLo (Intravenous): 15 mg/kg (dog)
 LDLo (Subcutaneous): 35 mg/kg (cat)
 TCLo (Inhalation): 0.125 mg/m³/22 weeks intermittently (rat)
 TDLo (Ingestion): 1.7 mg/kg/70 minutes (man)
 TDLo (Intraperitoneal): 400 mg/kg (pregnant rat)
 TDLo (Intravenous): 36mg/kg (pregnant cattle)

12. ECOLOGICAL INFORMATION

- Exotoxicity:** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
- Aquatic Toxicity:** Very toxic to aquatic organisms.
- Persistence / Degradability:** Not Available.
- Mobility:** Not Available.

13. DISPOSAL CONSIDERATIONS

- Waste Disposal:** Add to a large volume of reducing solution (thiosulphate, metabisulphite, but not carbon, sulphur or strong reducer) and acidify with 3M sulphuric acid. When reduction is complete, add mixture to water and neutralise. Absorb with sand or similar non-combustible material and dispose of to an approved landfill site. Contact the manufacturer for additional information.
- Legislation:** Dispose of in accordance with relevant local, state and federal environmental regulations.



14. TRANSPORT CONSIDERATIONS

Not classified as a dangerous good by the criteria of the Australian Dangerous Goods (ADG) Code for transport by road and rail. Australian Special Provision AU01 to the ADG Code 7th Edition 2011 states that Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or
- (b) IBCs.

Classified as a dangerous good Class 9 (Miscellaneous) for the purpose of storage and marine transport: UN3082. Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazchem Code: 3Z.

15. REGULATORY INFORMATION

Poisons Schedule: Schedule 6 (according to the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Inventory Listing(s): All components are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Revision Date: March 2017

Reason(s) for Issue: Changes to Safe Work Australia's requirements for Safety Data Sheets to align with the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) requirements.

The information contained in this SDS is believed to be accurate and has been obtained from sources considered reliable. Users of this information should make their own investigations to determine the suitability of the information for their particular use or situation. NITRO SIBIR AUSTRALIA does not in any way warrant or imply the applicability, viability or use of this information to any person, for use in any situation.

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