

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Identifier:**

**Product Name:** GASSER 2

**Other Means of Identification:**

**Synonyms:** Sodium Nitrite Solution

**Proper Shipping Name:** Not applicable

**Recommended Use of the Chemical and Restrictions on Use:**

**Recommended Use:** Sensitising agent for POLAR SX and POLAR UX Bulk Emulsions

**Restrictions on Use:** For use only by suitably qualified persons

**Supplier's Details:**

**Supplier's Name:** Nitro Sibir Australia

**Address:** Suite 3, Level 1, 1 Puccini Court  
Stirling WA 6021

**Telephone:** +61 8 9022 3821

**Emergency Telephone Number:**

**Emergency Number:** 1800 884 289 (all hours)

**SDS Date:** July 2023

### 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture:**

Classified as hazardous according to the criteria of Safe Work Australia: HAZARDOUS CHEMICAL

NOT Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code): NON-DANGEROUS GOODS.

**GHS Label Elements, Including Precautionary Statements:**

Acute Oral Toxicity – Category 4

Eye Damage/Irritation – Category 2A

**Signal Word:** Warning



*Exclamation Mark*

**Hazard Statement(s):**

H302: Harmful if swallowed

H319: Causes serious eye irritation

**Precautionary Statement(s):**

**Prevention:**

P264: Wash hands thoroughly after handling.

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

P280: Wear protective gloves, protective clothing and eye protection.

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**Response:**

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

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.

**Storage:**

No storage statements.

**Disposal:**

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

**POISONS SCHEDULE (SUSMP):** Schedule 6 Poison.

**Other Hazards Which Do Not Result in Classification:**

No information available.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No	Proportion
Sodium Nitrite	7632-00-0	<30%
Materials determined not to be hazardous	Not applicable	to 100%

## 4. FIRST AID MEASURES

**Description of Necessary First Aid Measures:****General Advice:**

For advice, contact a doctor or Poisons Information Centre (131 126).

**Inhalation:**

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop, seek medical attention.

**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 (131 126) 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.

**Skin:**

If contact with skin or hair occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. Nitrites can be absorbed through the skin with resultant toxic effects. Launder contaminated clothing before reuse.

**Ingestion:**

Immediately rinse mouth with water. If swallowed DO NOT induce vomiting. Seek immediate medical assistance. Urgent hospital treatment is likely to be needed.

**Most Important Symptoms/Effects, Acute and Delayed:****Symptoms and Effects:**

Treat symptomatically. Treat as for exposure to nitrites. May cause methemoglobinemia. Danger of methaemoglobin formation after ingestion.

**Indication of Immediate Medical Attention and Special Treatment, if Necessary:****Information to Doctor:**

Treat as for exposure to nitrites. The smooth muscle relaxant effect of nitrite salts may lead to headache, dizziness and marked hypotension.

## 5. FIRE FIGHTING MEASURES

### *Suitable Extinguishing Media:*

**Suitable Extinguishing Media:** Water fog or fine water spray.

**Unsuitable Extinguishing Media:** Dry agent (carbon dioxide, dry chemical powder).

### *Specific Hazards Arising from the Chemical:*

**Specific Hazards:** Non-combustible material.

**Hazards from Combustion Products:** Decomposes on heating emitting toxic fumes including those of nitrogen.

### *Special Protective Actions for Fire Fighters:*

**Precautions and Special Protective Equipment:** Mass explosion hazard. A major fire may involve the risk of explosion. An adjacent detonation may also involve the risk of explosion.

**HAZCHEM CODE:** 3Z

## 6. ACCIDENTAL RELEASE MEASURES

### *Personal Precautions, Protective Equipment and Emergency Procedures:*

**For Non-Emergency Personnel:** If spilt (bulk), use personal protective equipment to prevent skin and eye contact. Contain spillage, the cover/absorb spill with non-combustible absorbent material (vermiculite, sand or similar).

In the case of a transport accident notify the local emergency services and Nitro Sibir Australia.

**For Emergency Personnel:** Prevent runoff into drains and waterways. DO NOT use combustible material to contain – use absorbent material such as soil, sand, vermiculite or other inert material.

### *Environmental Precautions:*

**Environmental Precautions:** Contain the product and prevent the spread of the spill to ensure it does not contaminate drains and waterways.

### *Methods and Materials for Containment and Cleaning Up:*

**Methods for Containment:** Prevent run off into drains and waterways using inert material such as soil, sand or vermiculite. Clean up immediately.

**Methods for Cleaning Up:** Collect in properly labelled containers for disposal.

## 7. HANDLING AND STORAGE

### *Precautions for Safe Handling:*

**Advice for Safe Handling:** This material is a Scheduled Poison – S6, and must be handled, used and stored in accordance with the relevant regulations.

**General Hygiene Advice:** Handle in accordance with good industrial hygiene and safety practices. Observe good personal hygiene. Wash hands before breaks and immediately after handling the product.

### *Conditions for Safe Storage Including any Incompatibilities:*

**Conditions for Safe Storage:** Store away from foodstuffs. Store away from sources of heat and ignition. Store away from oxidising substances and incompatible materials as detailed in Section 10 of this SDS.

Keep containers closed when not in use. Keep securely sealed and protected against physical damage. Inspect regularly for spills.

**Storage Incompatibilities:** Incompatible with oxidising substances such as ammonium nitrate.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control Parameters:**

**Exposure Limits:** No exposure value has been assigned to this material by Safe Work Australia.

**Appropriate Engineering Controls:**

**Engineering Controls:** Use in a well-ventilated area. Keep containers closed when not in use.

**Individual Protection Measures, such as Personal Protective Equipment (PPE):**

**Individual Protection Measures:** A detailed and documented risk assessment must be carried out to determine minimum PPE requirements.

Wear protective clothing, safety glasses and impervious gloves when handling and using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties and Safety Characteristics:**

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Pale yellow
<b>Odour:</b>	Mild
<b>Odour Threshold:</b>	Not available
<b>Melting / Freezing Point:</b>	Not available
<b>Initial Boiling Point and Boiling Range:</b>	100°C
<b>Flammability:</b>	Not applicable
<b>Lower / Upper explosion limit / flammability limit</b>	Not available
<b>Flash Point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not available
<b>pH:</b>	Not available
<b>Kinematic Viscosity:</b>	Not available
<b>Solubility:</b>	Miscible with water
<b>Partition Coefficient:</b>	Not applicable
<b>Vapour Pressure:</b>	Not available
<b>Relative Density:</b>	1.0 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Not available
<b>Particle Characteristics:</b>	Not applicable
<b>Explosive Properties:</b>	Not applicable
<b>Further Safety Characteristics:</b>	No information available.



## 10. STABILITY AND REACTIVITY

### **Reactivity:**

No information available.

### **Chemical Stability:**

Stable under recommended conditions of storage.

### **Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur. Can react with ammonium nitrate and materials containing nitrates.

### **Conditions to Avoid:**

Avoid contact with flammable and combustible materials. Avoid exposure to heat, flame and other sources of ignition.

### **Incompatible Materials:**

Incompatible with acids, alkalis, nitrates, oxidising agents, strong reducing agents, amines and powdered metals.

### **Hazardous Decomposition Products:**

Thermal decomposition may result in the release of irritating and/or toxic fumes of nitrogen and sodium.

## 11. TOXICOLOGICAL INFORMATION

### **General Advice:**

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

### **Acute Toxicity:**

Toxic. This material 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 methaemoglobinemia with cyanosis (blue/grey skin colour). May emit toxic N-nitrosamines (suspected carcinogens) when mixed with amines and acids.

### **Information on Likely Routes of Exposure:**

<b>Skin corrosion / irritation:</b>	Skin contact may cause irritation and skin sensitisation in sensitive persons. Can be absorbed through cut or broken skin with resultant toxic effects.
<b>Serious eye damage / irritation:</b>	Irritant. Contact may result in irritation, lacrimation, pain and redness.
<b>Respiratory or skin sensitisation:</b>	Irritant. Contact with skin may result in irritation, drying and defatting of the skin, rash and dermatitis. Breathing in mists may produce respiratory irritation.
<b>Germ cell mutagenicity:</b>	This material is not classed as a mutagen.
<b>Carcinogenicity:</b>	There is no information available for this product.
<b>Reproductive toxicity:</b>	Not classified as a reproductive toxin.
<b>Specific target organ toxicity (STOT):</b>	<b>Single exposure</b> – No information available.
<b>Specific target organ toxicity (STOT):</b>	<b>Repeated exposure</b> – No information available.
<b>Aspiration hazard:</b>	This material is not considered an aspiration hazard.
<b>Symptoms Related to the Physical, Chemical and Toxicological Characteristics:</b>	
<b>Skin Contact:</b>	Contact may result in irritation, dryness and dermatitis.
<b>Inhalation:</b>	May cause irritation to mucous membranes and the respiratory tract.

## SAFETY DATA SHEET – CHEMICAL REAGENTS

### **Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure:**

**Skin Contact:** May cause skin irritation in sensitive persons. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Inhalation:** Inhalation may result in irritation of the respiratory tract.

### **Numerical Measures of Toxicity:**

No information available for product.

Information available for the product components:

Sodium Nitrite – Oral LD50 (rat): 157.9 mg/kg, Oral LD50 (mouse): 175 mg/kg, Oral LD50 (rabbit): 186 mg/kg

**LD50** (Lethal Dose) – the amount of a material, given all at once under control conditions, which causes the death of 50% (one half) of a large number of test animals.

### **Interactive Effects:**

No information available.

## 12. ECOLOGICAL INFORMATION

### **Exotoxicity:**

Avoid contaminating waterways.

### **Persistence and Degradability:**

Not expected to persist in soil or water.

### **Bioaccumulative Potential:**

No information available.

### **Mobility in soil:**

No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods:**

Contact Nitro Sibir for disposal advice. May react violently with incompatible materials. Dispose of in accordance with relevant local, state and federal environmental regulations.

## 14. TRANSPORT CONSIDERATIONS

### **Road and Rail:**

Not classified as Dangerous Goods according to the Australian Dangerous Goods Code (ADG code) for Transport by Road and Rail.

### **Sea Transport:**

Not classified as Dangerous Goods according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for Transport by Sea.

**Environmental hazards:** Not a known marine pollutant.

### **Air Transport:**

Not classified as Dangerous Goods according to the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air.

## SAFETY DATA SHEET – CHEMICAL REAGENTS

**Special Precautions for User:**

**Transport Information:** No additional information.

## 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations Specific for the Product in Question:****Australia:**

Not classified as Dangerous Goods according to the Australian Dangerous Goods Code (ADG code) for Transport by Road and Rail: NON-DANGEROUS GOODS.

Classified as a hazardous chemical according to the criteria of Safe Work Australia: HAZARDOUS CHEMICAL.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons – S6.

All components of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

**International Agreements:**

This product is not subject to the Montreal Protocol on Substances that Deplete the Ozone Layer.

This product is not subject to the Stockholm Convention on Persistent Organic Pollutants.

This product is not subject to the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

## 16. OTHER INFORMATION

**Revision Date:** JULY 2023

**Reason(s) for Issue:** Minor changes to formatting.

<b>Abbreviations used:</b>	CAS No	Chemical Abstract Service number (chemical unique identifier)
	EMS	Emergency Schedules (procedures for ships carrying dangerous goods)
	g/cm <sup>3</sup>	grams per cubic centimetre
	GHS	Globally Harmonised System of Classification and Labelling of Chemicals
	LD50	Lethal Dose, 50%
	pH	Scale of acidity from 0 (acidic) to 14 (alkaline), pH 7 is neutral
	PPE	Personal Protective Equipment
	ppm	Parts per million
	mg/m <sup>3</sup>	Milligrams per cubic metre
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	TWA	Time Weighted Average

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