UN GHS REVISION 7

Safety Data Sheet

Sodium Nitrite

Version 1.0, Date of issue: 2026-07-04

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Sodium Nitrite
Product number	SODNIT
Brand	Chemnovo

1.3 Recommended use of the chemical and restrictions on use

Laboratory reagent

1.4 Supplier's details

Name	Hurst Scientific
Address	2 Transit Place, 6112 Forrestdale WA, Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

1.5 Emergency phone number

Australian Poisons Information Centre 13 11 26

Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Oxidising Liquid/Solid, Cat. 2 or 3
- Acute Toxicity (Oral), Cat. 3
- Hazardous to the Aquatic Environment (Acute), Cat. 1
- Serious Eye Damage/Irritation, Cat. 2A

2.2 GHS label elements, including precautionary statements

Pictograms

1. Flame over circle; 2. Skull and crossbones; 3. Exclamation mark; 4. Environment

Signal word

Danger

Hazard statement(s)

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H319	Causes serious eye irritation.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see supplemental first-aid instructions on this label).
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate extinguishing media for the surrounding fire.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

No information available on PBT / vPvB status or endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Component	Concentration
Sodium nitrite (CAS: 7632-00-0)	**≥ 99 – < 100%**
CLASSIFICATIONS: Oxidising Liquid/Solid, Cat. 3; Acute Toxicity (Oral), Cat. 3; Hazardous to the Aquatic Environment (Acute), Cat. 1; Serious Eye Damage/Irritation, Cat. 2A. **HAZARDS:** H272 - May intensify fire; oxidiser; H301 - Toxic if swallowed; H400 - Very toxic to aquatic life; H319 - Causes serious eye irritation.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

Eye contact

Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

Skin contact

Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

Inhalation

Evacuate to fresh air immediately. If unconscious, place in recovery position and provide artificial respiration if breathing ceases. Seek medical attention.

Ingestion

DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek medical attention.

First-aid facilities

Eye wash station, safety shower and First Aid kit.

4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in Section 2 (hazard statements) and Section 11 (toxicological information).

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. For advice, contact the Poisons Information Centre (Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use flooding quantities of water. Do NOT use dry chemical powder, carbon dioxide or foam. In a large fire, flood the fire area with water from a protected position and dam fire-control water for later disposal. Do not scatter spilled material with high-pressure water streams.

5.2 Specific hazards arising from the chemical

Oxidiser — will intensify fire and accelerate burning. May ignite combustible materials such as wood, paper, oil and clothing. Containers may explode when heated. Decomposes on heating to emit toxic nitrogen oxides.

5.3 Special protective actions for fire-fighters

Fire fighters should wear self-contained breathing apparatus (SCBA) operated in positive-pressure mode and a chemical splash suit; a structural firefighter's uniform provides only limited protection against these materials. Fight the fire from a safe location. If safe to do so, move undamaged containers from the fire area. Do not move containers that have been exposed to heat. Prevent firefighting runoff from entering waterways, drains and sewers. Contain and collect fire-control water for later disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection, refer to Section 8.

6.2 Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

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. 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Prevent dispersion of dust. Use local exhaust ventilation where dust or aerosol may be generated.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and upright when not in use. Store away from incompatible materials (see Section 10). Inspect containers regularly for damage or leaks. Store away from combustible and reducing materials and from sources of heat.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Sodium nitrite (CAS: 7632-00-0)
AU/SWA (AU): No occupational exposure limit established.

8.2 Appropriate engineering controls

Ensure an adequate ventilation or exhaust system is in place.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standard AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

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

Hand protection

Use occupational protective gloves complying with AS 2161 (Selection, Use and Maintenance).

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Pale yellow crystals
Colour	No data available
Odour	odourless
Odour threshold	No data available
Melting point/freezing point	271 °C
Boiling point or initial boiling point and boiling range	320 °C
Flammability	No data available
Lower and upper explosion limit/flammability limit	No data available
Flash point	No data available
Explosive properties	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Oxidising properties	No data available
pH	9
Kinematic viscosity	No data available
Solubility	Water: 820 g/l at 20 °C
Partition coefficient n-octanol/water (log value)	3.7
Vapour pressure	No data available
Evaporation rate	No data available
Density and/or relative density	2.168 g/cm³
Relative vapour density	No data available
Particle characteristics	No data available
Supplemental information regarding physical hazard classes	No data available
Further safety characteristics (supplemental)	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of storage and handling.

10.2 Chemical stability

May cause fire or explosion; strong oxidiser.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Direct sunlight. Heat. Sparks. Overheating. Open flame

10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases.

10.6 Hazardous decomposition products

Thermal decomposition or combustion may produce toxic nitrogen oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Toxic if swallowed; 180 mg/kg (rat, LD50 oral); 5500 µg/m³/4H (rat, LC50 inhalation)

Skin corrosion/irritation
Not expected to be a skin irritant.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
No GHS carcinogenicity classification assigned.

Reproductive toxicity
Not considered to be toxic to reproduction.

Specific target organ toxicity (STOT) - single exposure
Not expected to cause toxicity to a specific target organ.

Specific target organ toxicity (STOT) - repeated exposure
Not expected to cause toxicity to a specific target organ through repeated exposure.

Aspiration hazard
Not expected to be an aspiration hazard.

SECTION 12: Ecological information

Toxicity
Very toxic to aquatic life

Persistence and degradability
No data available

Bioaccumulative potential
Log Pow 3.7

Mobility in soil
No data available

Results of PBT and vPvB assessment
No data available

Endocrine disrupting properties
No data available

Other adverse effects
No data available

SECTION 13: Disposal considerations

Product disposal
Dispose of in accordance with local authority guidelines.

Packaging disposal
Dispose of in accordance with local authority guidelines.

Waste treatment
Dispose of in accordance with local authority guidelines.

Sewage disposal
Do not contaminate drains and waterways.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Australian Dangerous Goods Code, 7th Edition)

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Transport hazard class	5.1
Packing group	III
Subsidiary risk	6.1
Hazchem code	1Z
Environmental hazards	Marine pollutant

IMDG (International Maritime Dangerous Goods Code)

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Transport hazard class	5.1
Packing group	III
Marine pollutant	Yes

IATA (International Air Transport Association Dangerous Goods Regulations)

UN Number	UN1500
Proper shipping name	SODIUM NITRITE
Transport hazard class	5.1
Packing group	III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Sodium nitrite (CAS: 7632-00-0)

Australia SUSMP — Poison Schedule: Schedule 7

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

SECTION 16: Other information

16.1 Further information/disclaimer

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013).
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), Volume 1, Edition 7.9 (2023).
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

16.2 Preparation information

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used. Copyright © 2026 Hurst Scientific