# SAFETY DATA SHEET

Revision date: 26-Jun-2023



Revision Number 1

Section 1: Identification		
Product identifier		
Product Name	SODIUM NITRITE 20% SOLUTIO	DN
Product Code(s)	00000054479	
Other means of identification		
Recommended use of the chemic	cal and restrictions on use	
Recommended use	General chemical.	
Uses advised against	No information available.	
Details of manufacturer or impor	ter	
Supplier Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia Telephone Number: +61 3 9906 30	00	
Emergency telephone number		
Emergency telephone number	1 800 033 111 (ALL HOURS)	
Please ensure you refer to the limitations of the	his Safety Data Sheet as set out in the "Other Inf	ormation" section at the end of this Data Sheet.
Section 2: Hazard identif	ication	
		fe Work Australia - Globally Harmonized System (GHS). le for the Transport of Dangerous Goods by Road and Rai
GHS Classification		
Acute toxicity - Oral		Category 4
Serious eye damage/eye irritation	n	Category 2
Acute aquatic toxicity		Category 2

Label elements Exclamation mark



### Signal word WARNING

### Hazard statements

H302 - Harmful if swallowed H319 - Causes serious eye irritation H401 - Toxic to aquatic life

### **Precautionary Statements - Prevention**

Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection/ face protection.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
Precautionary Statements - Storage
No storage statements.
Precautionary Statements - Disposal
Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

### Other hazards which do not result in classification

## Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%
Sodium nitrite	7632-00-0	20
Non hazardous component(s)	-	to 100

Section 4: First aid measures		
Description of first aid measures		
General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor. Show this safety data sheet to the doctor in attendance.	
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, (trained personnel should) give oxygen. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with plenty of water. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash before reuse.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person. If victim has breathing difficulties treat as for "Inhalation".	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.	

### Most important symptoms and effects, both acute and delayed

Symptoms	May cause redness and tearing of the eyes. Dizziness.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically. Treat as for exposure to nitrites. The absorption of this product into the body may lead to the formation of methemoglobin that, in sufficient concentration, causes cyanosis. Cyanosis is clinically detectable when approximately 15% of the haemoglobin has been converted to methaemoglobin (ferric iron). Clinical findings: The smooth muscle relaxant effect of nitrate/nitrite salts may lead to headache, dizziness and marked hypotension. Symptoms such as headache, dizziness, weakness and dyspnoea occur when methemoglobin concentrations are 30% to 40%; at levels of about 60% stupor, convulsions, coma and respiratory paralysis occur and the blood is a chocolate brown colour. At higher levels death may result. Spectrophotometric analysis can determine the presence and concentration of methemoglobin in the blood.	

# Section 5: Firefighting measures

### Suitable Extinguishing Media

Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Water spray or fog. Cool containers with flooding quantities of water until well after fire is out.	
Unsuitable extinguishing media	Dry chemical. Do not use extinguishing media that contains ammonium salts. Carbon dioxide (CO2).	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow evaporation to dryness.	
Hazardous combustion products	Nitrogen oxides.	
Special protective actions for fire-fighters		

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Avoid contact with skin and eyes. Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection. Do not touch or walk through spilled material.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Keep out of waterways. Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for

additional Ecological Information.

### Methods and material for containment and cleaning up

Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Dike far ahead of spill to collect runoff water.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Collect in properly labelled drums or other suitable containers, with loose fitting lids.

# Section 7: Handling and storage

### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. KEEP OUT OF REACH OF CHILDREN AND PETS. Avoid contact with skin and eyes. Wash thoroughly after handling.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection. Do not get in eyes, on skin, or on clothing.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Store locked up. Store away from foodstuffs. Keep out of the reach of children.	
	This material is a Scheduled Poison and must be stored, maintained and used in accordance with the relevant regulations.	
Incompatible materials	Acids. Alkali. Reducing agent. Finely powdered metals. Amines. Ammonium compounds. Strong acids.	

# Section 8: Exposure controls and personal protection

### Control parameters

Exposure LimitsThis product, as supplied, does not contain any hazardous materials with occupational<br/>exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.



Eye/face protection	Goggles.
Skin and body protection	Wear suitable protective clothing. Overalls. Protective shoes or boots.
Hand protection	Wear suitable gloves.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.
Thermal hazards	No information available.

# Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid Clear Colourless to Pale Yellow Negligible No information available	
Property	Values	Remarks • Method
pH	No data available	
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	ca. 100°C	
Flash point	Not applicable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

# Section 10: Stability and reactivity

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Possibility of hazardous reactions	_
Possibility of hazardous reactions	Can react violently with ammonium nitrate or materials containing ammonium nitrate.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	
Conditions to avoid	Avoid contact with combustible substances. Do not allow evaporation to dryness. Do not contaminate food or feed stuffs. Contact with other chemicals. Avoid contamination of the material.
Incompatible materials	
Incompatible materials	Acids. Alkali. Reducing agent. Finely powdered metals. Amines. Ammonium compounds. Strong acids.
Hazardous decomposition products	

Hazardous decomposition products Nitrogen oxides.

# Section 11: Toxicological information

### Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Causes serious eye irritation.
Skin contact	May cause irritation.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause a lowering of blood pressure (hypotension).
Symptoms	May cause redness and tearing of the eyes. Dizziness.
Acute toxicity	

<u>Numerical measures of toxicity</u> - Product Information No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Sodium nitrite	157.9 mg/kg (rat) -		= 5.5 mg/L (Rat)4 h	
	175 mg/kg (mouse)			
	186 mg/kg (rabbit)			
See section 16 for terms and abbrevia	ations			
Delayed and immediate effects as v	vell as chronic effects from shor	t and long-term exposure	_	
Skin corrosion/irritation	No information available.			
Serious eye damage/eye irritation	Causes serious eye irritation. Classification is based on mixture calculation methods based on component data.			
Respiratory or skin sensitization	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			
Chronic effects:	May cause anaemia and methemoglobinaemia, characterised by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown coloured blood.			

# Section 12: Ecological information

### **Ecotoxicity**

### Aquatic ecotoxicity

Keep out of waterways. Toxic to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium nitrite	-	LC50: =0.19mg/L (96h,	-	-
		Oncorhynchus mykiss)		
		LC50: 0.092 - 0.13mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 0.4 - 0.6mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 0.65 - 1mg/L		
		(96h, Oncorhynchus		
		mykiss)		

r	1.050 0.00	//_ (00h		
	LC50: =2.3m Pimephales p			
	LC50: =20mg	g/L (96h,		
	Pimephales p	fomelas)		
Terrestrial ecotoxicity	There is no data for this product.			
Persistence and degradability				
Persistence and degradability	Biodegradation is not an applical	Biodegradation is not an applicable endpoint since the product is an inorganic substance.		
Bioaccumulative potential				
Bioaccumulation	There is no data for this product.			
Component Information				
Chemi	cal name	Partition coefficien	nt	
Sodiu	m nitrite	-3.7		
<u>Mobility</u>				
Mobility	No information available.			
Other adverse effects				
Other adverse effects	No information available.			
Section 13: Disposal cor	nsiderations			
Waste treatment methods				
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Should not be released into the environment.			
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.			
See section 8 for more information	on			
Section 14: Transport in	formation			
ADG		ods by the criteria of the Australian Da ad and Rail; NON-DANGEROUS GO		
IATA_		bds by the criteria of the International A boods Regulations for transport by air;		
IATA IMDG	Association (IATA) Dangerous G GOODS. Not classified as Dangerous Goo		NON-DANGEROUS	

Section 15: Regulator	y information
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### Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations

### Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

See section 8 for national exposure control parameters

#### Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP) **Poison Schedule Number** 7

### Australian Industrial Chemicals Introduction Scheme (AICIS)

Contact supplier for inventory compliance status

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Sodium nitrite - 7632-00-0	Present	-

### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

International Inventories	
AIIC	All the constituents of this material are listed on the Australian Inventory of Industrial
	Chemicals.
NZIoC	Contact supplier for inventory compliance status.
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.

Legend:

AllC- Australian Inventory of Industrial Chemicals

### NZIOC - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### International Regulations

### The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: 0	Other information	ion		
Reason(s) For Is		First Issue Primary	/ SDS	
Revision date:		26-Jun-2023		
Revision Note:				
The symbol (*) in	the margin of this S	DS indicates that this	s line has been revise	d.
Key or legend to	abbreviations and	acronyms used in	the safety data shee	et
PBT: Persistent, vPvB: Very Persi	Bioaccumulative, and stent and very Bioa arget Organ Toxicity ty Estimate Concentration	cern for Authorization nd Toxic (PBT) Subs ccumulative (vPvB) \$	tances	
Legend Section	8: EXPOSURE CC	NTROLS/PERSON/	AL PROTECTION	
TWA Ceiling C	TWA (time-weight Maximum limit va Carcinogen		STEL *	STEL (Short Term Exposure Limit) Skin designation
Agency for Toxic S U.S. Environment European Food S EPA (Environment Acute Exposure G U.S. Environment U.S. Environment Food Research Jo Hazardous Substa International Unifo National Institute of Australia National Australian Industri NIOSH (National I National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	Substances and Dis al Protection Agenc afety Authority (EFS tal Protection Agenc suideline Level(s) (A al Protection Agenc al Protection Agenc burnal ance Database form Chemical Inform of Technology and B Industrial Chemical al Chemicals Introd nstitute for Occupat f Medicine's ChemII f Medicine's ChemII f Medicine's PubMe gy Program (NTP) memical Classification conomic Co-operat conomic Co-operat	y) EGL(s)) / Federal Insecticide / High Production Vo valuation Database (IUC valuation (NITE) s Notification and As uction Scheme (AIC ional Safety and Hea D Plus (NLM CIP) d database (NLM PL n and Information Da on and Developmen on and Developmen	DR) ase p, Fungicide, and Rode plume Chemicals CLID) assessment Scheme (N IS) alth) JBMED) atabase (CCID) atabase (CCID) at Environment, Health	IICNAS) n, and Safety Publications ume Chemicals Program

### <u>Disclaimer</u>

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and

control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet