Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

1 Identification	
· Product identifier	
 Trade name: <u>Sodium Nitrite, ACS Grade</u> Product code: SN1001 CAS Number: 7632-00-0 	
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. 	
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 	
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)	
2 Hazard(s) identification	
 Classification of the substance or mixture Ox. Sol. 3 H272 May intensify fire; oxidizer. Acute Tox. 3 H301 Toxic if swallowed. 	
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: 	
GHS03 GHS06	
 Signal word: Danger Hazard statements: H272 May intensify fire; oxidizer. H301 Toxic if swallowed. Precautionary statements: 	
P210 Keep away from heat. P220 Keep/Store away from clothing/combustible materials.	

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

(Cont'd. of page 1)

- P221 Take any precaution to avoid mixing with combustibles. P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment: Methylene blue may be required for severe cases.
- P330 Rinse mouth.
- P370+P378 In case of fire: Use for extinction: Water.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• NFPA ratings (scale 0 - 4) The substance possesses oxidizing properties.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

- · CAS No. Description
- 7632-00-0 Sodium nitrite

4 First-aid measures

[•] Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Brush off loose particles from skin.

Rinse with warm water.

If skin irritation is experienced, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Methaemoglobinaemia

Gastric or intestinal disorders when ingested.

· Danger: Toxic if swallowed.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Specific treatment: Methylene blue may be required for severe cases.

If medical advice is needed, have product container or label at hand.

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

(Cont'd. of page 2)

5 Fire-fighting measures

[•] Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

May intensify fire; oxidizer.

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Take any precaution to avoid mixing with combustibles.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Sweep up and place into an appropriate container.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

· Precautions for safe handling: Use only in well ventilated areas.

Information about protection against explosions and fires:

May intensify fire; oxidizer.

Substance/product can reduce the ignition temperature of flammable substances. Take any precaution to avoid mixing with combustibles.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

Do not store together with acids.

Store away from reducing agents.

Further information about storage conditions:

Keep containers tightly sealed.

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

(Cont'd. of page 3)

Store in cool, dry conditions in well sealed receptacles. • **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- Engineering controls: Provide adequate ventilation.
- Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

 Material of gloves Nitrile rubber, NBR
 Neoprene gloves
 Butyl rubber, BR
 Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

[•] Limitation and supervision of exposure into the environment

No relevant information available.

 Information on basic physical and chemical properties Appearance: 			
Form:	Crystalline		
Color:	Yellowish		
· Odor:	Characteristic		
· Odor threshold:	Not determined.		
· pH-value:	Not applicable.		
· Melting point/Melting range:	271 °C (519.8 °F)		

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

ade name: Sodium Nitrite, ACS Grade			
		(Cont'd. of page	
· Boiling point/Boiling range:	Not determined.		
· Flash point:	The product is not flammable.		
Flammability (solid, gaseous):	Contact with combustible material may cause	e fire.	
Auto-ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
Danger of explosion:	Product does not present an explosion haza	rd.	
 Explosion limits Lower: Upper: Oxidizing properties: 	Not determined. Not determined. Oxidizer		
· Vapor pressure:	Not determined.		
Density at 20 °C (68 °F): Relative density: Vapor density: Evaporation rate:	2.17 g/cm³ (18.11 lbs/gal) Not determined. Not applicable. Not applicable.		
[·] Solubility in / Miscibility with Water at 20 °C (68 °F):	82 g/l		
Partition coefficient (n-octanol/wa	ter): Not determined.		
· Viscosity Dynamic: Kinematic: · Other information	Not applicable. Not applicable. No relevant information available.		

10 Stability and reactivity

• **Reactivity:** No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Acts as an oxidizing agent on organic materials such as wood, paper and fats.

Reacts with reducing agents.

Contact with acids releases toxic gases.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid No relevant information available.

· Incompatible materials

Flammable materials.

Acids.

Reducing agents.

Hazardous decomposition products

Under fire conditions only:

Nitrogen oxides

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

Г

(Cont'd. of page 5)

	ormation on toxicological effects
	ute toxicity: Toxic if swallowed.
	/LC50 values that are relevant for classification:
	32-00-0 Sodium nitrite
	al LD50 85 mg/kg (rat)
	mary irritant effect:
	the skin: Based on available data, the classification criteria are not met.
	the eye: Based on available data, the classification criteria are not met.
	nsitization: Based on available data, the classification criteria are not met.
	RC (International Agency for Research on Cancer): Destance is not listed.
	P (National Toxicology Program):
	bstance is not listed.
	HA-Ca (Occupational Safety & Health Administration):
Sul	bstance is not listed.
	bbable route(s) of exposure:
	estion.
	alation.
	e contact. In contact.
	ute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed.
	peated dose toxicity: No relevant information available.
	rm cell mutagenicity: Based on available data, the classification criteria are not met.
	rcinogenicity: Based on available data, the classification criteria are not met.
	productive toxicity: Based on available data, the classification criteria are not met.
	OT-single exposure: Based on available data, the classification criteria are not met.
	OT-repeated exposure: Based on available data, the classification criteria are not met.
	piration hazard: Based on available data, the classification criteria are not met.
Ec	ological information
_	•
	xicity
	uatic toxicity No relevant information available.
	rsistence and degradability No relevant information available.
	paccumulative potential: No relevant information available.
	bility in soil: No relevant information available.

- Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Very toxic for aquatic organisms

Other adverse effects No relevant information available.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

(Cont'd. of page 6)

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous. Incinerate in accordance with local, state and federal regulations.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1500	
UN proper shipping name DOT, IMDG, IATA ADR/RID/ADN	SODIUM NITRITE 1500 NATRIUMNITRIT	
Transport hazard class(es)		
DOT		
Class	5.1	
Label	5.1, 6.1	
ADR/RID/ADN		
Class	5.1 (OT2)	
Label	5.1+6.1	
IMDG		
Class	5.1	
Label	5.1/6.1	

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

ade name: Sodium Nitrite, ACS Grade		
		(Cont'd. of pa
·IATA		
· Class	5.1	
· Label	5.1 (6.1)	
[·] Packing group [·] DOT, ADR/RID/ADN, IMDG, IATA	111	
Environmental hazards		
Marine pollutant:	Symbol (fish and tree)	
Special precautions for user	Warning: Oxidizing substances	
Hazard identification number (Kemler code):	56	
· EMS Number:	F-A,S-Q	
· Segregation groups	Nitrites and their mixtures	
[·] Transport in bulk according to Annex II o	f	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
· DOT		
Hazardous substance:	100 lbs, 45.4 kg	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA • Section 302 (extremely hazardous substances): Substance is not listed. · Section 313 (Specific toxic chemical listings): Substance is listed. • TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. · Proposition 65 (California) · Chemicals known to cause cancer: Substance is not listed. · Chemicals known to cause developmental toxicity for females: Substance is not listed. Chemicals known to cause developmental toxicity for males: Substance is not listed. (Cont'd. on page 9)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Nitrite, ACS Grade

(Cont'd. of page 8)

• Chemicals known to cause developmental toxicity:

Substance is not listed.

• EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

Canadian Domestic Substances List (DSL):

Substance is not listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

Website: www.chemtel.com

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Ox. Sol. 3: Oxidizing solids - Category 3 Acute Tox. 3: Acute toxicity - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573