

Version: 1.1 Revision Date: 03-10-2020

SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

1. Identification

Product identifier: Sodium Nitrite

Other means of identification Product No.: 3780, 7824

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

Details of the supplier of the safety data sheet

Company Name: Address:	Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person: E-mail:	Product Information Compliance info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

2. Hazard(s) identification

Hazard Classification

Physical Hazards Oxidizing solids	Category 2
Health Hazards	
Acute toxicity (Oral)	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Unknown toxicity - Health	
Acute toxicity, dermal	100 %
Environmental Hazards	Catagory 1

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Unknown toxicity - Environment

Acute hazards to the aquatic	0 %
environment	
Chronic hazards to the aquatic	100 %
environment	
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Label Elements

Hazard Symbol:

Signal Word:	Danger
Hazard Statement:	May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.
Response:	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. 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. Collect spillage.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Substances

Chemical Identity	CAS number	Content in percent (%)*	
Sodium nitrite	7632-00-0	97 - 100%	
* All concentrations are percent	by weight unless ing	redient is a gas. Gas concentrations are in percent by	volume.

4. First-aid measures

General information:

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. Ensure that emergency personnel are aware of the material involved, and take precautions to protect themselves.

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Ingestion:	Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary.	
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.	
Most important symptoms/effects	s, acute and delayed	
Symptoms:	Toxic if swallowed. Irritating to eyes, respiratory system and skin.	
Hazards:	None known.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Symptoms may be delayed. Treat symptomatically.	
5. Fire-fighting measures		
General Fire Hazards:	Oxidizing material. Noncombustible, but will support combustion. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.	
Suitable (and unsuitable) extingu	ishing media	
Suitable extinguishing media:	Water or water spray in early stages of fire. Foam.	
Unsuitable extinguishing media:	Dry chemical. Straight Streams of Water	
Specific hazards arising from the chemical:	Strong oxidizer - contact with other material may cause fire. Explosion risk.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Remove sources of ignition. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Use non-sparking tools.
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
7. Handling and storage	
Precautions for safe handling:	Do not taste or swallow. Wash hands thoroughly after handling. Avoid contact with eyes. Keep away from food, drink and animal feeding stuffs. Keep away from combustible material. Do not eat, drink or smoke when using the product. Do not smoke, use open fire or other sources of ignition. Use personal protective equipment as required. See Section 8 of the SDS for Personal Protective Equipment. Observe good industrial hygiene practices. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Take any precaution to avoid mixing with combustibles. Wear fire resistant or flame retardant clothing.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Store away from incompatible materials. Eliminate sources of ignition.
8. Exposure controls/personal	protection
Control Parameters Occupational Exposure Limit	s None of the components have assigned exposure limits.
Appropriate Engineering Controls	No data available.
Individual protection measures, s	such as personal protective equipment
General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.

- Hand Protection: Chemical resistant gloves
- Other: Wear suitable protective clothing and gloves.

Skin Protection

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Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes, skin, and clothing.

9. Physical and chemical properties

Appearance

	Calid
Physical state:	Solid
Form:	Granules
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	9 (20 °C)
Melting point/freezing point:	271 °C
Initial boiling point and boiling range:	320 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	2.17 g/ml (20 °C)
Relative density:	2.17 (20 °C)
Solubility(ies)	
Solubility in water:	852 g/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	69 g/mol (NaNO2)
10. Stability and reactivity	

Reactivity:	Contact with combustible material may cause fire.
Chemical Stability:	The substance is hygroscopic and will absorb water by contact with the moisture in the air.

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Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames. Contact with incompatible materials.
Incompatible Materials:	Reducing agents. Flammable/combustible material. Organic compounds.
Hazardous Decomposition Products:	Nitrogen Oxides
11. Toxicological informatio	n
Information on likely routes of Inhalation:	f exposure May be harmful if inhaled.
Skin Contact:	Prolonged skin contact may cause temporary irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	Toxic if swallowed.
Information on toxicological e	ffects
Acute toxicity (list all possi	ble routes of exposure)
Oral Product:	LD 50 (Rat): 85 - 180 mg/kg
Dermal Product:	No data available.
Inhalation Product:	LC 50 (Rat, 4 h) 5.5 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irrit Product:	ation Causes serious eye irritation.
Respiratory or Skin Sensitiza Product:	tion Not a skin nor a respiratory sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Eva No carcinogenic compone	aluation of Carcinogenic Risks to Humans: ents identified
US. National Toxicology Prog No carcinogenic compone	ram (NTP) Report on Carcinogens: ents identified
US. OSHA Specifically Regula No carcinogenic compone	ated Substances (29 CFR 1910.1001-1050): ents identified



Germ Cell Mutagenicity

In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive toxicity Product:	No components toxic to reproduction	
Specific Target Organ Toxicity Product:	- Single Exposure None known.	
Specific Target Organ Toxicity - Repeated Exposure Product: None known.		
Aspiration Hazard Product:	Not classified	
Other effects:	None known.	

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Sodium nitrite	LC 50 (Channel catfish (Ictalurus punctatus), 96 h): 13 mg/l LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.35 - 3.81 mg/l LC 50 (Oncorhynchus mykiss, 96 h): 0.19 - 26.3 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Sodium nitrite	EC 50 (Greasyback shrimp (Metapenaeus ensis), 48 h): 16.14 - 26.61 mg/l LC 50 (Indian prawn (Penaeus indicus), 48 h): 15.37 mg/l EC 50 (Daphnia magna, 48 h): 15.4 mg/l
Chronic hazards to the aquatic environment:	
Fish	

Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.

Persistence and Degradability

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Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available on bioaccumulation.
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.
Mobility in soil:	The product is water soluble and may spread in water systems.
Other adverse effects:	Very toxic to aquatic life with long lasting effects.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1500
UN Proper Shipping Name: Transport Hazard Class(es)	Sodium nitrite
Class:	5.1
Label(s):	5.1, 6.1
Packing Group:	III
Marine Pollutant:	Yes

Special precautions for user:	Marine pollutant mark is not required on single or combination packagings where each single or each inner package of combination packaging has a net quantity of 5 Kg (11 pounds) or less for solids.
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Marine Pollutant:	UN 1500 SODIUM NITRITE 5.1 5.1, 6.1 F-A, S-Q III Yes
Special precautions for user:	Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In case of marine pollutants also meeting criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.
IATA	
UN Number: Proper Shipping Name: Transport Hazard Class(es): Class: Label(s):	UN 1500 Sodium nitrite 5.1 5.1, 6.1
Packing Group: Marine Pollutant: Special precautions for user:	III Yes Marine pollutants when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 Kg or less for solids are not subject to any other provisions of the IATA regulations relevant to marine pollutants provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity	L
Sodium nitrite	

Reportable quantity De minimis concentration: 0.1% One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity	
Sodium nitrite	100 lbs.	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Oxidizer (liquid, solid or gas) Acute toxicity (any route of exposure) Serious eye damage or eye irritation



		Revision D
SARA 302 Extremely Haza		
None present or nor	ne present in regula	ted quantities.
SARA 304 Emergency Rel		
<u>Chemical Identity</u> Sodium nitrite	Reportable quan	itity
Sociali nitrite	100 103.	
SARA 311/312 Hazardous	•••••	
<u>Chemical Identity</u> Sodium nitrite	Threshold Plan 10000 lbs.	ning Quantity
Sodium nitrite	10000 lbs.	
SARA 313 (TRI Reporting)		
SARA 313 (TRI Reporting)	Reporting	Reporting threshold for
	threshold for	manufacturing and
Chemical Identity	other users	processing
Sodium nitrite	10000 lbs.	25000 lbs.
Clean Air Act (CAA) Section 112(r None present or nor		
Clean Water Act Section 311 Haza	rdous Substances	s (40 CFR 117.3):
Chemical Identity	<u>Reportable quan</u>	
Sodium nitrite	Reportable quanti	ity: 100 lbs.
US State Regulations		
US. California Proposition	65	
No ingredient requir		r CA Prop 65.
US. New Jersey Worker ar Chemical Identity Sodium nitrite	nd Community Rig	ht-to-Know Act
US. Massachusetts RTK -	Substance List	
Chemical Identity	Substance List	
Sodium nitrite		
US. Pennsylvania RTK - H	azardous Substan	ces
Chemical Identity		
Sodium nitrite		
US. Rhode Island RTK		
No ingredient regula	ated by RI Right-to-ł	Know Law present.
International regulations		
Montreal protocol		
Not applicable		
Stockholm convention		
Not applicable		
Rotterdam convention		
Not applicable		
Kyoto protocol		
Not applicable		

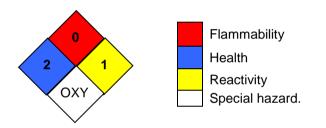


Inventory Status:

Australia AICS: Canada DSL Inventory List: China Inv. Existing Chemical Substances: Japan (ENCS) List: Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): Mexico INSQ: New Zealand Inventory of Chemicals: Philippines PICCS: Taiwan Chemical Substance Inventory: US TSCA Inventory: EINECS, ELINCS or NLP: On or in compliance with the inventory On or in compliance with the inventory

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible OXY: Oxidizer

Issue Date:	03-10-2020
Revision Information:	Not relevant.
Version #:	1.1
Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.

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