

Revision date: 06-20-2014

SAFETY DATA SHEET

1. Identification

Product identifier: SODIUM NITRITE

Other means of identification **Product No.:** 3780, 7824

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

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

Environmental hazards

Acute hazards to the aquatic Category 1

environment

Chronic hazards to the aquatic Category 1

environment

Label elements

Hazard symbol:



Signal word: Danger



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Hazard statement: May intensify fire; oxidizer.

Toxic if swallowed.

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep/Store away from clothing/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.

Other hazards which do not result in GHS classification:

None

3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM NITRITE		7632-00-0	97 - 100%

^{*} All concentrations are percent by weight unless ingredient 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.

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.



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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, acute and delayed

Symptoms: Toxic if swallowed. Irritating to eyes, respiratory system and skin.

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) extinguishing 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

in case of fire.

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

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

MSDS 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 only 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.



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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 MSDS for Personal Protective Equipment. Observe good industrial hygiene practices. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Take any precaution to avoid mixing with combustibles. Wear

fire/flame resistant/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 limits

None of the components have assigned exposure limits.

Appropriate engineering

controls

No data available.

Individual protection measures, 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.

Skin protection

Hand protection: Chemical resistant gloves

Other: Wear suitable protective clothing and gloves.

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

Physical state:SolidForm:GranulesColor:White



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Odorless Odorless

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:271 °CInitial boiling point and boiling range:> 320 °CFlash Point:Not ApplicableEvaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water: 852 g/l

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

Other information

Molecular weight: 69 g/mol (HNO2.Na)

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.

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 information

Information on likely routes of exposure

Ingestion: Toxic if swallowed.

Inhalation: May be harmful if inhaled.

Skin contact: May cause irritation.

Eye contact: Causes serious eye irritation.



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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 85 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: May cause skin irritation.

Serious eye damage/eye irritation

Product: Causes serious eye irritation.

Respiratory or skin sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components 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 - single exposure

Product: None known.

Specific target organ toxicity - repeated exposure

Product: None known.

Aspiration hazard

Product: Not classified

Other effects: None known.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

SODIUM NITRITE LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.19 -

0.24 mg/l Mortality

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

Intoxication

LC 50 (Water flea (Daphnia magna), 24 h): 43.6 mg/l Mortality LC 50 (Indian prawn (Penaeus indicus), 48 h): 15.37 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)
Product:
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.



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14. Transport information

DOT

UN number: UN 1500 UN proper shipping name: Sodium nitrite

Transport hazard class(es)

Class(es): 5.1, 6.1
Label(s): 5.1, 6.1
Packing group: III
Marine Pollutant: No

IMDG

UN number: UN 1500

UN proper shipping name: SODIUM NITRITE

Transport hazard class(es)

Class(es): 5.1, 6.1 Label(s): 5.1, 6.1 EmS No.: F-A, S-Q

Packing group: III
Marine Pollutant: No

IATA

UN number: UN 1500
Proper Shipping Name: Sodium nitrite

Transport hazard class(es):

Class(es): 5.1, 6.1
Label(s): 5.1, 6.1
Marine Pollutant: No
Packing group: III

15. Regulatory information

US federal regulations

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

SODIUM NITRITE Reportable quantity: 100 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Χ	Acute (Immediate)		Chronic (Delayed)	Х	Fire	Χ	Reactive		Pressure Generating
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SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity	RQ
SODIUM NITRITE	100 lbs.



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SARA 311/312 Hazardous chemical

Chemical identity Threshold Planning Quantity

SODIUM NITRITE

SODIUM NITRITE 500 lbs

SARA 313 (TRI reporting)

Reporting Reporting threshold for threshold for manufacturing and

Chemical identity other users processing

SODIUM NITRITE 10000 lbs 25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

SODIUM NITRITE Reportable quantity: 100 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

SODIUM NITRITE Listed

US. Massachusetts RTK - Substance List

SODIUM NITRITE Listed

US. Pennsylvania RTK - Hazardous Substances

SODIUM NITRITE Listed

US. Rhode Island RTK

SODIUM NITRITE Listed

Inventory Status:

Japan (ENCS) List:

On or in compliance with the inventory
China Inv. Existing Chemical Substances:

On or in compliance with the inventory

Australia AICS:

On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

EINECS, ELINCS or NLP:

On or in compliance with the inventory

Japan (ENCS) List:

On or in compliance with the inventory
China Inv. Existing Chemical Substances:

Not in compliance with the inventory.

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

On or in compliance with the inventory.

Canada NDSI Inventory:

Not in compliance with the inventory.

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

On or in compliance with the inventory

On or in compliance with the inventory

New Zealand Inventory of Chemicals:

On or in compliance with the inventory

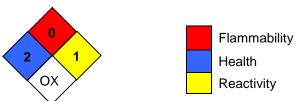
Japan ISHL Listing:

On or in compliance with the inventory

Not in compliance with the inventory.

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

NFPA Hazard ID





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Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

OXY: Oxidizer

Issue date: 06-20-2014

Revision date: No data available.

Version #: 1.0

Further information: No data available.

Disclaimer: THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA

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