

# SAFETY DATA SHEET

Creation Date 11-Feb-2010

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Sodium nitrite

Cat No. :

A18668

CAS-No Synonyms 7632-00-0 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

## **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Acute oral toxicity Serious Eye Damage/Eye Irritation Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Liver, Blood, Cardiovascular system.	Category 3 Category 3 Category 2 Category 2
larget Organs - Kidney, Liver, Blood, Cardiovascular system.	

## Label Elements

Signal Word Danger

## Hazard Statements

May intensify fire; oxidizer Toxic if swallowed Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention

Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Eves 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 Indestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium nitrite	7632-00-0	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	

	Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

## 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available	
Flash Point Method -	No information available No information available	
Autoignition Temperature	510 °C / 950 °F	
Explosion Limits Upper Lower Oxidizing Properties	No data available No data available Oxidizer	

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Sodium oxides.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 3	Flammability 0	Instability 2	Physical hazards OX			
	6. Accidental release measures					
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak.						
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.					
Methods for Containment and CleanKeep combustibles (wood, paper, oil, etc) away from spilled material. Sweep up and shovelUpinto suitable containers for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.						
	7. Handling and storage					
Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from clothing ar other combustible materials.						
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store n combustible materials. Store under an inert atmosphere.		tilated place. Do not store near			

8. E	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Solid
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	8-9 (10 g/l aq.sol)
Melting Point/Range	271 °C / 519.8 °F
Boiling Point/Range	320 °C / 608 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	820 g/L (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	510 °C / 950 °F
Decomposition Temperature	> 320°C
Viscosity	Not applicable
Molecular Formula	N Na O2
Molecular Weight	69

# 10. Stability and reactivity

Reactive Hazard	Yes
Stability	Oxidizer: Contact with combustible/organic material may cause fire.
Conditions to Avoid	Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water.

Incompatible Materials	Acids, Amines, Reducing Agent, Combustible material, Strong reducing agents, Oxidizing agent
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

## Acute Toxicity

## Product Information

Component Information				
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sodium nitrite	LD50 = 85 mg/kg (Rat)	Not listed	LC50 = 5.5 mg/L (Rat) 4 h	
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Irritation	Irritating to eyes			
Sensitization	nsitization No information available			
Carcinogenicity	ogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger			

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Sodium nitrite	7632-00-0	Not listed	Not listed	Not listed	Not listed	Not listed			
IARC (Internationa	I Agency for Rese	arch on Cancer) IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans							
				Probably Carcinoge					
				Possibly Carcinoger					
Mutagenic Effects		No information ava	ailable						
Reproductive Effect	S	No information ava	ailable.						
Developmental Effects		No information ava	No information available.						
Teratogenicity		No information available.							
STOT - single exposure STOT - repeated exposure		None known Kidney Liver Blood Cardiovascular system							
Aspiration hazard		No information available							
Symptoms / effects delayed	both acute and	d No information available							
Endocrine Disruptor	Information	No information available							
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.							

# 12. Ecological information

## Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrite	-	Oncorhynchus mykiss: LC50	-	12.5-100 mg/L 48h
		= 0.09-0.13 mg/L 96h		

Persistence and DegradabilitySoluble in water Persistence is unlikely based on information available.Bioaccumulation/ AccumulationNo information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sodium nitrite	-3.7

## 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN1500
Proper Shipping Name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN1500
Proper Shipping Name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	111
IATA	
UN-No	UN1500
Proper Shipping Name	Sodium nitrite
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	111
IMDG/IMO	
UN-No	UN1500
Proper Shipping Name	Sodium nitrite
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	III
	15. Regulatory information

## United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Sodium nitrite	7632-00-0	Х	ACTIVE	S

## Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

## TSCA 12(b) - Notices of Export

Component	CAS-No	TSCA 12(b) - Notices of Export
Sodium nitrite	7632-00-0	Section 5

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Sodium nitrite	7632-00-0	Х	-	231-555-9	Х	Х	Х	Х	KE-31546

## U.S. Federal Regulations

## **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium nitrite	7632-00-0	>95	1.0

#### SARA 311/312 Hazard Categories See section 2 for more information

#### CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium nitrite	X	100 lb	-	-

Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Sodium nitrite	100 lb	-	
California Proposition 65 This pro	duct does not contain any Proposition 65 ch	emicals.	

## U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrite	Х	Х	Х	Х	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	Y N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade

No information available

16. Other information	
Prepared By	Health, Safety and Environmental Department
	Email: tech@alfa.com
	www.alfa.com
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**Revision Summary** 

SDS authoring systems update, replaces ChemGes SDS No. 7632-00-0/1.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**