

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 11-Feb-2010	Revision Date 30-Oct-2014	Revision Number 1
	1. Identification	
Product Name	Sodium nitrite	
Cat No. :	S347-10; S347-250; S347-3; S347-500	
Synonyms	No information available	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safe	No Information available ety data sheet	
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887	

2. Hazard(s) identification

Classification

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

	Cotogon / 2
Oxidizing solids	Category 3
Acute oral toxicity	Category 3
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (repeated exposure)	Category 2
Target 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

Eyes

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

Ingestion

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

Con	nponent	CAS-No	Weight %	
Sodium nitrite		7632-00-0	>95	
	4	. First-aid measures		
Eye Contact		ediately with plenty of water, also under th dical attention.	ne eyelids, for at least 15 minutes.	
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	resuscitatio	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.		
Ingestion	Do not indu	ice vomiting. Call a physician or Poison C	Control Center immediately.	

Revision	Date	30-Oct-2014
----------	------	-------------

Most important symptoms/effects
Notes to Physician

No information available. Treat symptomatically

5. Fire-fighting measures

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

<u>NFPA</u> He	ealth 3	Flammability 0	Instability 2	Physical hazards OX
		6. Accidental rel	lease measures	
Personal Preca	autions	Keep people away from an		
Environmental	I Precautions	contaminate ground water	ater or sanitary sewer system. I system. Prevent product from e cant spillages cannot be contair	ntering drains. Local authorities
Methods for Co Up	ontainment and Cle	up spillage and collect in su		ed material. Sweep up or vacuum void dust formation. Soak up with rs for disposal.
		7. Handling a	and storage	
Handling		not breathe dust. Do not ge	et in eyes, on skin, or on clothin	ntilation. Avoid dust formation. Do g. Do not ingest. Keep away from ore breaks and immediately after
Storage			sed in a dry, cool and well-venti re under an inert atmosphere.	lated place. Do not store near
8. Exposure controls / personal protection				
Exposure Guid	delines_	This product does not cont established by the region s	ain any hazardous materials wi pecific regulatory bodies.	th occupational exposure limits

Г

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			
Relative Density	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			

	for orability 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 agents, Oxidizing agents, Combustible material, Strong reducing agents		
Hazardous Decomposition Products 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 Informa		LD50 Oral		LD50 Dermal	1 C50	nhalation
Sodium nitri		85 mg/kg (Rat)		Not listed		_ (Rat)4h
Toxicologically Syn		No information ava	ailable			- ()
Products	5					
Delayed and immed	liate effects as	well as chronic effe	cts from short ar	nd long-term expo	sure	
•						
Irritation		Irritating to eyes				
Sensitization		No information ava	ailable			
•		The table balancia				
Carcinogenicity		I ne table below in	dicates whether ea	ach agency has list	ted any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium nitrite	7632-00-0	Not listed	Not listed	Not listed	Not listed	Not listed
IARC: (Internation	hal Agency for R	esearch on Cancer)	IARC: (Inte	rnational Agency for	Research on Cancer)	
				Carcinogenic to Huma		
				Probably Carcinoger		
Mutanania Effecta		No information ava		Possibly Carcinogen	ic to Humans	
Mutagenic Effects		No information ava				
Reproductive Effect	te	No information ava	ailahle			
		No information ave				
Developmental Effe		No information ava	ailable.			
Developmental Effe		No information ava	ailable.			

The toxicological properties have not been fully investigated. 12. Ecological information

Kidney Liver Blood Cardiovascular system

Ecotoxicity

delayed

STOT - single exposure

Aspiration hazard

Other Adverse Effects

STOT - repeated exposure

Endocrine Disruptor Information

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

None known

Symptoms / effects, both acute and No information available

No information available

No information available

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrite	-	Oncorhynchus mykiss: LC50 = 0.09-0.13 mg/L 96h	-	12.5-100 mg/L 48h
Persistence and Degradability Soluble in water Persistence is unlikely based on information available				lable

Bioaccumulation/ Accumulation

Soluble in water Persistence is unlikely based on information available. No 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	
TDG	
UN-No	UN1500
Proper Shipping Name	SODIUM NITRITE
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	
<u>IATA</u>	
UN-No	UN1500
Proper Shipping Name	Sodium nitrite
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	
IMDG/IMO	
UN-No	UN1500
Proper Shipping Name	Sodium nitrite
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium nitrite	Х	Х	-	231-555-9	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

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

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

Component		TSCA 12(b)	
Sodium nitrite		Section 5	
SARA 313			
Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium nitrite	7632-00-0	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act

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

Clean Air Act Not applicable

OSHA 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 product does not contain any Proposition 6	5 chemicals

California Proposition 65This product does not contain any Proposition 65 chemicals

State Right-to-Know

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

C Oxidizing materials D1B Toxic materials



16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date Revision Summary 11-Feb-2010 30-Oct-2014 30-Oct-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS