



## Univar USA Inc Material Safety Data Sheet

---

CENTRAL CONCRETE SUPPLY

DBA WESTSIDE CONCRETE

755 STOCKTON AVE

SAN JOSE

CA 95126

MSDS No: GC66483

Version No: 005 05/21/09

Order No: SJ963056

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052  
(425) 889 3400

---

### Emergency Assistance

For emergency assistance involving chemicals call  
Chemtrec - (800) 424-9300

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

The Version Date and Number for this MSDS is : 05/21/2009 - #005

PRODUCT NAME: SODIUM NITRITE

MSDS NUMBER: GC66483

DATE ISSUED: 07/21/2008

SUPERSEDES: 02/02/2006

ISSUED BY: 008025

\*\*\*\*\*  
\*\*\*\*\*

Material Safety Data Sheet

NFPA	HMIS	PPE
Health: 2		
Flammability: 0		
Reactivity: 1		

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: SODIUM NITRITE

Other/Generic Names: Nitrous Acid, Sodium Salt, Sodium Nitrite (various grades)

Recommended Use: Food preservative, dye manufacturing, corrosion inhibitor

Manufacturer

General Chemical, LLC  
90 East Halsey Road  
Parsippany, NJ 07054

General Chemical Performance Products Ltd.  
90 East Halsey Road  
Parsippany, NJ 07054

Further information

FOR MORE INFORMATION CALL: Customer Service US ONLY: 800-631-8050  
(Monday-Friday, 9:00am - 4:30pm)

Customer Service CANADA ONLY: 866-543-3896  
(Monday-Friday, 9:00am - 4:30pm)

Emergency Telephone Number

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

IN CASE OF EMERGENCY CALL CHEMTREC: 800-424-9300 US ONLY  
24 Hours/Day, 7 Days/Week) CANADA ONLY CALL CANUTEC: 613-996-6666  
(24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White to slightly yellow crystalline solid. Toxic if swallowed or dust is inhaled. Oxidizer: May ignite organic materials and react with other materials. Can decompose if mixed with acids or exposed to fire conditions, releasing toxic nitrogen oxides.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Skin: May cause skin irritation.

Eyes: Contact with eyes may cause irritation

Inhalation: Dust may irritate nose and throat. Dusts are soluble and inhalation may result in toxic effects similar to ingestion.

Ingestion: May irritate mouth, esophagus and stomach. Although small quantities are used in food preparation, swallowing moderate amounts of sodium nitrite can result in serious toxic effects including death. Effects include nausea, weakness, cyanosis (blue skin), collapse and coma, possibly leading to death. Sodium nitrite interferes with the blood's ability to transport oxygen.

Delayed Effects: None known. If sodium nitrite is used with amines found in certain cutting fluids, potentially carcinogenic nitrosamine compounds may be formed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium nitrite	7632-00-0	>98

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

attention immediately.

Ingestion: Do not induce vomiting. Immediately give large quantities of water. Get medical attention immediately.

Notes to Physician: Sodium nitrite forms methemoglobin in the blood stream. Treat accordingly.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point:	Not flammable
FLASH POINT METHOD:	Not applicable.
Autoignition Temperature	Not applicable
UPPER FLAME LIMIT (volume % in air):	Not applicable
LOWER FLAME LIMIT (volume % in air):	Not applicable
FLAME PROPAGATION RATE (solids):	Not applicable
OSHA FLAMMABILITY CLASS:	Not applicable

Suitable Extinguishing Media: Use flooding amounts of water or other agents.

Unsuitable Extinguishing Media: DO NOT use dry chemicals containing ammonium phosphate.

Explosion Limits

Hazardous Combustion Products	No information available
Impact sensitivity	No information available
Sensitivity to static discharge	No information available

Specific Hazards Arising from the Chemical

Material does not burn but is an oxidizing agent and will support combustion of other materials. Product decomposes above 608 deg F releasing toxic nitrogen oxides.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus (SCBA) and full protective equipment.

NFPA            Health 2            Flammability 0            Instability 1

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: Remove sources of ignition. Ventilate area. Use non-sparking tools and equipment. Sweep or shovel spilled material into containers. Dispose of material according to local, state and federal authorities. Do not allow product or residues to enter waterways and/or any source of drinking water.

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Do not breathe product dusts. Avoid contact with incompatible, combustible, organic or readily oxidizable materials.

Storage

Store in a cool, dry and well-ventilated area. Keep container tightly closed. Do not store on wooden floors. Isolate from combustible materials. Empty containers may contain product residues; observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH	OSHA	Ontario	Mexico	NIOSH
Component	TLV	PEL	TWAEV	OEL (TWA)	IDLH
Sodium nitrite					
7632-00-0					

Engineering Measures

Use local exhaust to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eye/face Protection

Wear chemical safety goggles. Do not wear contact lenses.

Skin Protection

Wear rubber apron, boots and gloves, and long-sleeve shirt and trousers for routine product use. If prolonged or repeated contact is anticipated, all clothing should be impervious to liquid.

Respiratory Protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

General Hygiene Considerations

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystals
Color	White to slightly yellow
Chemical Formula	NaNO2
Odor	None

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

Odor Threshold	No information available
Physical State	Solid
PH	Approximately 9 (for aqueous solution)
Flash Point:	Not flammable
Autoignition Temperature	Not applicable
Boiling Point/Range	Decomposes above 608 deg F
Melting Point/Range	520 deg F
Flammability Limits in Air	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity	2.17
Solubility	No information available
Partition Coefficient (n-octanol/water)	No information available
Viscosity	No information available
Molecular Weight	69.0
Water Solubility	46% at 68 deg F

10. STABILITY AND REACTIVITY

Chemical Stability  
Normally stable.

Conditions to Avoid

Material slowly oxidizes to sodium nitrate when exposed to air. Avoid heat, flame, ignition sources, shock, friction and incompatibles.

Incompatible Products

Hazardous reactions can occur with acids, ammonium compounds, reducing agents (particularly cyanides, thiocyanates and thiosulfates). May ignite organic compounds and other combustible materials.

Hazardous Decomposition Products

Oxides of nitrogen (toxic and irritating).

Possibility of Hazardous Reactions

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LC50 Inhalation: (inhalation - rat): 5.5 mg/m<sup>3</sup>/4 hr

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium nitrite	88 mg/kg ( Rat )		

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

Irritation	No information available
Corrosivity	No information available.
Sensitization	No information available.
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product.
Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
Target Organ Effects	No information available

Other Adverse Effects

Delayed (Subchronic and chronic) effects: . Multiple reproductive tests indicate that sodium nitrite is not teratogenic. Fetal toxicity has been demonstrated in pregnant animals fed toxic doses of sodium nitrite. This is due to the formation of methemoglobin.

Endocrine Disruptor Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrite		LC50= 0.19 mg/L Oncorhynchus mykiss 96 h		

Persistence and Degradability	No information available.
-------------------------------	---------------------------

Bioaccumulation	No information available.
-----------------	---------------------------

Mobility in Environmental Media	No information available
---------------------------------	--------------------------

Component	log Pow
Sodium nitrite	-3.7

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLY

MSDS NO: GC66483  
VERSION: 005 05/21/09

Waste must be disposed of in accordance with federal, state and local regulations. The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number

No information available

Component	RCRA	RCRA - Basis for Listing RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium nitrite			
7632-00-0			

14. TRANSPORT INFORMATION

DOT	Regulated
Proper Shipping Name	Sodium nitrite
Hazard Class	5.1
Subsidiary Hazard Class	6.1
UN-No	UN1500
Packing Group	PGIII

TDG	Regulated
Hazard Class	5.1
Subsidiary Hazard Class	6.1
UN-No	UN1500
Packing Group	PGIII

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act



ORDER NO: SJ963056

MATERIAL SAFETY DATA SHEET  
CUST: CENTRAL CONCRETE SUPPLYMSDS NO: GC66483  
VERSION: 005 05/21/09

of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Sodium nitrite	7632-00-0	>98	1.0

## SARA 311/312 Hazardous Categorization

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

## Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite	100 lb			X
7632-00-0 ( >98 )				

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium nitrite	100 lb	

## U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrite	X	X	X		

## 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

D1 B Toxic materials

D2B Toxic materials

## 16. OTHER INFORMATION

ORDER NO:SJ963056

MATERIAL SAFETY DATA SHEET  
CUST:CENTRAL CONCRETE SUPPLY

MSDS NO:GC66483  
VERSION:005 05/21/09

Prepared By

Kaci Rosario, Product Safety Supervisor

## Univar USA Inc Material Safety Data Sheet

---

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

### Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process