

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

1. IDENTIFICATION:

Product Code : 90247, 90556, 91620

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Physical hazards**

Oxidizing solids : Category 3

Health hazards

Acute toxicity, Oral : Category 3

Eye irritation : Category 2

Environmental hazards

Acute hazards to the aquatic environment : Category 1

Chronic hazards to the aquatic environment : Category 1

Short-term (acute) aquatic hazard : Category 1

Labels 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 statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.

- Response** : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed.
- 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:

Ingredient	CAS Number	Percent	Hazardous
Sodium Nitrite	7632-00-0	97 - 100%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Get medical attention if symptoms persist.
- 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.
- Most important symptoms/effects, acute and delayed** : Toxic if swallowed, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Symptoms may be delayed. Treat symptomatically.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

5. FIRE FIGHTING MEASURES:

General information	:	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 spray, foam, dry powder, carbon dioxide.
Unsuitable extinguishing media	:	Dry chemical. Straight Streams of Water.
Specific hazards arising from the chemical	:	Nitrogen oxides (NOx) Sodium oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Has a fire-promoting effect due to release of oxygen.
Special protective equipment and precautions for firefighters		
Special firefighting procedures	:	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
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	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	:	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.

7. HANDLING AND STORAGE:

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

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. Use explosion-proof ventilation equipment.**Eye/face protection** : Wear safety glasses with side shields (or goggles).**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**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** : 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. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance** : White or slightly yellow crystalline powder.**Odor** : Odorless**Solubility in water** : 852 g/l**Solubility** : No data available**Formula** : NaNO₂**Molecular Weight** : 69.0 g/mol**Specific Gravity** : 2.17 (20 °C)**pH** : No data available**% Volatiles by volume @ 21C (70F)** : No data available**Boiling Point** : > 320 °C**Melting Point** : 271 °C

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

Flash Point : No data available.
Vapor Density (Air=1) : No data available.
Vapor Pressure (mm Hg) : No data available.
Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : Contact with combustible material may cause fire.
Chemical stability : Material is stable under ambient conditions..
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Heat, sparks, flames. Sunlight.
Incompatible materials : No data available.
Hazardous decomposition products : Nitrogen Oxides.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.
Inhalation : May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects
Skin contact : Causes mild skin irritation
Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD50 - Rat - 186 mg/kg
Dermal Product : No data available.
Inhalation Product : No data available.
Repeated dose toxicity Product : No data available.
Skin corrosion/irritation Product : May cause skin irritation.
Serious eye damage/eye irritation Product : Irritating to eyes.
Respiratory or skin sensitization Product : Not a skin sensitizer.
Carcinogenicity Product : This substance has no evidence of carcinogenic properties

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

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 Germ cell mutagenicity)	:	No carcinogenic components identified.
In vitro Product	:	No data available.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	Not 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 (Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>), 96 h): 0.19 - 0.24 mg/l Mortality.
Aquatic invertebrates Product	:	LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 10,000 mg/l .
Specified substance(s): SODIUM NITRITE	:	EC 50 (Greasyback shrimp (<i>Metapenaeus ensis</i>), 48 h): 16.14 - 26.61 mg/l Intoxication LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 43.6 mg/l Mortality LC 50 (Indian prawn (<i>Penaeus indicus</i>), 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	:	

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM NITRITE

CAS Number: 7632-00-0

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 partly soluble in water. May spread in the aquatic environment.
Other adverse effects	:	Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATION:

Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1500	Sodium Nitrite	5.1, 6.1	III	No
IMDG	UN 1500	Sodium Nitrite	5.1, 6.1	III	No
IATA	UN 1500	Sodium Nitrite	5.1, 6.1	III	No

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM NITRITE

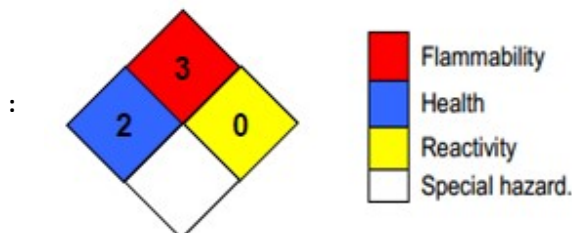
CAS Number: 7632-00-0

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



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

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Version : 01

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