

SAFETY DATA SHEET

Revision date 1-July-2020

Sodium Nitrite CAS no, : 7632-00-0

	Section 1 : Chemical Product and Company Identification			
1.1	Product identi	fiers		
	Product Name:	Sodium Nitrite		
1.2	Other means of	f identification		
	Other names	Nitrous Acid, Sodium Salt;		
		Sodium Nitrite (various grades)		
	CAS No.	7632-00-0		
	REACH No.	01-2119471836-27-0003		
	EC number	231-555-9		
	Index no.			
1.3	Recommended	use of the chemical and restrictions on use		
	Identified uses	Food preservative, dye manufacturing, corrosion inhibition, antioxidants for		
		synthetic polymers, heat transferring agents, stabilizers, surface-active		
	Uses advised	agents Food additives		
	against	roou additives		
1.4	Supplier's details			
	Company	Deepak Nitrite Ltd.		
		Aaditya-I, Chhani Road, Vadodara - 390 024, India		
		Manufacturing facilities at : Vadodara, Dahej, Roha, Taloja & Hyderabad.		
		Web: www.godeepak.com E.mail: customer.dnl@godeepak.com		
1.5	Emergency phone number			
		In case of Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC		
		Within USA & Canada: +1-800-424-9300,		
		Outside USA & Canada: +1 703-527-3887		
		Contact no.: +91-9904406400		

	Section 2: Hazards Identification		
2.1	Classification	of the substance or mixture	
	(Classification according to Regulation (EC) No 1272/2008)		
	Oxidizing solid, Category 3, H272 May intensify fire, Oxidizer		
	Acute toxic, Ca	ategory 3 H301 Toxic if swallowed.	
	Eye irritation ca	ategory 2 H319 Cause serious eye irritation.	
	Acute aquatic t	oxicity category 1, H400 Very toxic to aquatic life.	
	EC classificat	ion	
		according to Directive 67/548/EEC)	
		tact with combustible material may cause fire.	
		c if swallowed	
	R36 Irrita		
	R50 Very toxic to aquatic organism		
2.2	Label elements including precautionary statements		
	Pictograms		
	Signal word	Danger	
	Hazard	H272: May intensify fire; oxidizer.	
	statement(s)	H301 Toxic if swallowed.	

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		H319 Causes serious eye irritation.		
		H400 Very toxic to aquatic life.		
	Precautionary	Precautionary statement(s)		
	Prevention	P210 Keep away from heat.		
		P220 Keep/Store away from clothing/combustible materials.		
		P264 Wash hands, forearms, and other exposed areas thoroughly after . handling.		
		P270 Do not eat, drink or smoke when using this product.		
		P273 Avoid release to the environment.		
		P280 Wear protective gloves/eye protection/face protection.		
	Response	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.		
	-	or doctor / physician.		
		P305+P351+P338 If in eye: Rinse cautiously with water for several minutes		
		. Remove contact lenses, if present and easy to do.		
		. Continue rinsing.		
		P337+P313 If eye irritation persists, get medical advice/ attention.		
		P330 Rinse mouth.		
		P321 Specific treatment (See First Aid Section 4 of SDS		
	Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed.		
2.3	Other hazards which do not result in classification			
	Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.			
	Exposure of nitrites via ingestion that result in endogenous nitrosation are classified by IARC			
	as a Group 2A probable human carcinogen. This product is not anticipated to be available			
	for oral exposure which would result in endogenous nitrosation under normal condition of			
	use or foresee	able emergencies, and is therefore not classified as a carcinogen.		

	Section 3 : Composition and Information on ingredients			
3.1	Substances			
	Molecular formula		NaNO ₂	
	Molecular weight		69.00 g/mol	
	Component	CAS Number	EC number	Concentration
	Sodium	7632-00-0	231-555-9	> 99%
	Nitrite			

	Section 4 : First Aid measures		
4.1	Description of necessary first-aid measures		
	After	If breathed in, move person into fresh air. If not breathing give artificial	
	inhalation	respiration. Consult a physician.	
	After skin	Wash off with plenty of water. Remove contaminated clothing.	
	contact		
	After eye	Rinse cautiously with water for several minutes. Remove contact lenses, if	
	contact	present and easy to do. Continue rinsing. If eye irritation persists: Get	
		medical advice/attention.	
	If swallowed	Give water to drink (two glasses at the most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 to 40 gram in 10% slurry) and consult a doctor as quickly as possible.	
	Note to Physician	Absorption of this product into the body may cause cyanosis. Moderate degrees of cyanosis need to be treated by supportive measures such as bed rest and oxygen inhalation. Through cleansing of the entire contaminated area of the body is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg of body weight may be of value. Antidote: None reported.	



4.2	Most important symptoms / effects, acute and delayed
	After absorption: Nausea, narcosis, Cyanosis
	After absorption of large quantities: Headache, Vomiting, Unconsciousness, increase in
	heart rate, depressed respiration, collapse, Methemoglobinemia
4.3	Indication of immediate medical attention and special treatment needed
	No data available

	Section 5 : Firefighting measures		
5.1	Extinguishing Media		
	Suitable extinguishing media		
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to		
	cool fire-exposed containers.		
	Unsuitable extinguishing media		
	Use of heavy stream of water may spread fire.		
5.2	Specific hazards arising from the chemical		
	Nitrogen oxides (NOx), Sodium oxides		
5.3	Special protective actions for fire-fighters		
	Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing		
	apparatus.		

	Section 6 : Accidental Release Measures		
6.1	Personal precautions, protective equipment and emergency procedures		
	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.		
6.2	Environmental precautions		
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		
	Discharge into the environment must be avoided.		
6.3	Methods and materials for containment and cleaning up		
	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for		
	disposal.		
	Store and dispose of according to local /national regulations (see section 13).		
6.4	Reference to other sections		
	Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.		

	Section 7 : Handling and Storage		
7.1	Precautions for safe handling		
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from combustible material. For precautions see section 2.2.		
7.2	Conditions for safe storage, including any incompatibilities		
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Do not		
	store near combustible materials. Hygroscopic.		

	Section 8 : Exposure Control / Personal Protection			
8.1	Control parameters / Occupational Exposure limit values			
	Endpoint	Threshold level	Protection goal, route of exposure	
	DNEL	2.0 mg/m ³	Human, inhalator	
8.2	Exposure controls / Appropriate engineering controls			
	Local exhaust ventilation to keep low dust environment			
8.3	Individual protection measures, such as Personal Protective Equipment (PPE)			

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Skin Protection	Complete suit protection against chemical, The type of protective equipment must be selected according to the amount and concentration of the dangerous substance at the workplace.
Hand Protection	Handle with gloves. The selected protective gloves which are satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Eye/Face Protection:	Use face shield and safety glasses. For Face and eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) to be used.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hygiene measures	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Immediately change contaminated clothing. Use adequate ventilation to keep airborne concentrations low.

	Section 9 : Physical and Chemical Properties		
9.1	Information on basic physical and chemical properties		
a)	Appearance	Form Solid	
b)	Colour	Slightly yellow	
c)	Odour	Odourless	
d)	pH	8-9 (100g/l H ₂ O, 20°C)	
e)	Boiling Point/range	320° C @ 760 mm Hg (Decomposition)	
f)	Melting point	280° C (decomposition)	
g)	Flash Point	No data available	
h)	Lower explosion limit	No data available	
i)	Upper explosion limit	No data available	
j)	Vapor pressure	9.9E-17 hPa @ 25°C	
k)	Relative vapor density	No data available	
l)	Bulk density	1200 kg/m ³	
m)	Solubility/qualitative	Easily soluble in cold water, hot water.	
n)	Water solubility	820 g/L water at 20°C	
o)	Partition coefficient (n- Octanol	Log Pow: -3.7	
	/ water)	Method: OECD test guideline 107	
		No bioaccumulation is to be expected (log Pow <1)	
9.2	Other safety information		
a)	There is no additional information		

	Section 10 : Stability and reactivity	
10.1	Reactivity	
	Oxidizer: increase the burning rate of combustible materials.	
10.2	Chemical Stability:	
	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
10.3	Possibility of hazardous reactions	
	Violent reaction with combustible material. Strong reducing agents, strong acids, amines, chlorates, finely powdered metals, hydrazine, liquid ammonia, amides (e.g. butyramide, diethyltoluamide, dimethyl formamide), cyanides, permanganates, hypophosphite, sulphites, tannic acid, carbon, antipyrine, sodium thiosulfate, ammonium salts, cellulose, acetanilide, iodides, mercury salts.	



10.4	Conditions to Avoid:	
	High temperatures, incompatible materials, combustible materials, organic material,	
	exposure to moist air or water.	
10.5	Incompatible Materials	
	Strong oxidizing agent. reducing agents, strong acids, amines, powdered metals, liquid	
	ammonia, humidity, aluminum, Cyanides, combustible materials, Ammonium salts.	
10.6	Hazardous Decomposition Products:	
	Hazardous decomposition products formed under fire conditions Sodium oxides, nitrogen	
	oxides (NOx)	

	Section 11 : Toxicological Information:			
11.1	Information on toxicological effects			
a)	Acute toxicity			
	Oral	LD ₅₀ - rat - 85 mg/kg		
	Inhalation:	LC ₅₀ Inhalation - rat - 4 h - 5,5 mg/m3		
	Dermal:	No data available		
b)	Skin corrosion	n/irritation		
	Prolong expos	ure may cause skin irritation		
c)		amage/eye irritation		
		e irritation. Contact causes severe irritation with redness and swelling of the		
	conjunctiva.			
d)		r skin sensitization		
		ll if inhaled. Prolonged exposure may cause respiratory tract and skin		
		irritation.		
e)	Germ cell mutagenicity			
	No data availa			
f)	Carcinogenic			
		oup 2A: Probably carcinogenic to human		
g)	Reproductive toxicity			
	No data availal			
h)	Specific target organ toxicity (STOT) - single exposure			
	No data available			
i)		t organ toxicity (STOT) - repeated exposure		
	Liver			
j)	Aspiration has			
	No data availal			
11.2	Additional Info			
	RTECS: RA12	225000		

	Section 12 : Ecological Information		
12.1	Toxicity		
	LD50 Oral Rat 85 mg/Kg		
	LC50 Inhalation Rat 5.5 mg/l/ 4 h		
	LC ₅₀ Species: Oncorhynchus mykiss (rainbow trout)		
	Dose: 0.09 – 0.13 mg/l Exposure time: 96 h (ECOTOX Database)		
	, , , , , , , , , , , , , , , , , , ,		
12.2	Persistence and Degradability		
	The methods for determining the biological degradability are not applicable to inorganic		
	substances.		
	Partition coefficient: n-octanol/water: Log Pow: -3.7		
	Method: OECD Test guideline 107		
	No bioaccumulation is to be expected (log Pow <1).		
12.3	Bio accumulative potential		
	No data available		

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12.4	Mobility in soil	
	No data available	
12.5	Other adverse effects	
	No data available	
12.5	Results of PBT and vPvB assessment	
	This substance /mixture contains no components considered to be either persistent, bio-accumulative, and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at level of 0.1% or higher.	
12.6	Other adverse effects	
	Very toxic to aquatic life.	

	Section 13 : Disposal considerations
13.1	Disposal Methods
a)	Product
	Dispose of contents/container in accordance with local/regional/national/international regulations. This is hazardous to the aquatic environment. Keep out of sewers and waterway. Do not use container for any other purpose. Containers retain hazardous materials.
b)	Contaminated packaging
	Dispose of as unused product.

	Section 14 : Transport information			
14.1	UN number			
	ADR/RID: 1500	IMDG: 1500	IATA: 150	0
14.2	Proper Shipping Name			
	ADR/RID: Sodium Nitrite	IMDG: Sodium Nitrite	IATA: Sodium Nitrit	е
14.3	Transport hazard class(es)			
	ADR/RID: 5.1 (6.1)	IMDG: 5.1 (6.1)	IATA: 5.1 (6	.1)
14.4	Packaging group			
	ADR/RID: III	IMDG: III	IATA: III	
14.5	Environmental hazards			
	ADR/RID: Marine pollutant	IMDG: Marine Pollutant	IATA: N/A	\
14.6	Special precautions for user			
	No data available			
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code			
	No data available			
	Section 15 : Regulatory information			
15.1	Safety, health and environmental regulations specific for the product in question			
	Listing of substance for applicability of various regulations / National inventories:			
	Safety phrase(s)			
	S22 Do not breath dust.			
	S24 Avoid contact with skin.			
	S41 In case of fire and/or explosion do not breathe fumes.			
	NFPA			
	The state of the s	er emergency conditions, can ca	iuse serious or perma	anent
	injury.			
	Fire :0 Materials that will not burn under typical conditions, including intrinsically			
	noncombustible materials such as concrete, stone and sand.			
	Reactivity: 1 Materials that in themselves are normally stable but can become unstable at			
	elevated temperatures and pressures. Specific Hazard : OX-Materials that possess oxidizing properties.			
	Regulations / National inven		G3.	Status
	· ·	y of Chemical Substances		Listed

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Domestic Substances List	Listed
Inventory of Existing Commercial Chemical Substance	Listed
List of Notified Chemical Substances	Not
	listed
ting Chemical Inventory	Listed
d Inventory of Chemicals	Listed
Inventory of Chemicals and Chemical Substances.	Listed
Existing and New Chemical Substances Inventory	Listed
sonous and Deleterious Substances Control Law	Listed
of Existing Chemical Substances Produced or Imported in	Listed
tes Toxic Substances Control Act	Listed
Candidate List of Substance of Very High Concern	Not
	listed
longer Polymers List	Not
	listed
onal Inventory of Chemical Substances.	Listed
essment	
fety assessment was not carried out for this product.	
	Inventory of Existing Commercial Chemical Substance List of Notified Chemical Substances ting Chemical Inventory d Inventory of Chemicals Inventory of Chemicals and Chemical Substances. Existing and New Chemical Substances Inventory conous and Deleterious Substances Control Law of Existing Chemical Substances Produced or Imported in tes Toxic Substances Control Act Candidate List of Substance of Very High Concern longer Polymers List onal Inventory of Chemical Substances. Instance of Chemical Substances. Instance of Chemical Substances.

	Section 16 : Other information		
16.1	Abbreviations and acronyms		
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road		
	CAS: Chemical Abstracts Service		
	CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
	CMR: Carcinogenic, Mutagenic or toxic for Reproduction		

- DGR: Dangerous Goods Regulations (see IATA/DGR)
 DNEL: Derived No Effect Level
- EC50: Effective Concentration 50%
- EINECS: European Inventory of Existing Commercial Chemical Substances
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
- IATA: International Air Transport Association
- IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA)
- ICAO International Civil Aviation Organization
- IMDG : International Maritime Dangerous Goods Code
- Index number: Identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- MARPOL: Marine Pollutant as per International Convention for the Prevention of Pollution from Ships
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- STEL: Short term exposure limit
- VOC : Volatile Organic Compounds
- vPvB : very Persistent and very Bio accumulative

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16.2	Key literature references and sources for data		
	a) Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU		
	b) Regulation	(EC) No. 1272/2008 (CLP, EU GHS)	
	c) Dangerous	Goods Regulations (DGR) for the air transport (IATA)	
	d) Internation	al Maritime Dangerous Goods Code (IMDG)	
	a, manual and a significant country		
	Prepared by :	Deepak Nitrite Ltd. E.Mail: sbraval@godeepak.com	
	Revision	01-June-2020	
	Date	01-Julie-2020	
	Revision	This safety datasheet has been prepared aaccording to the UN Globally	
	Summary	Harmonized System of Classification and Labelling of Chemicals (GHS),	
		and complies with the requirements of Regulation (EC) No. 1907/2006.	
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	Individuals receiving the information must exercise their independent		

End of SDS