

## SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

### SODIUM NITRITE

Revision Date: 20-Dec-2012

Revision Number: 11

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

Product Name SODIUM NITRITE

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use Additive  
Uses Advised Against No information available

**Details of the supplier of the safety data sheet**

Halliburton Energy Services  
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Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

E-Mail address: [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)

**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

Emergency telephone §45 - (EC)1272/2008	
Europe	112
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Spain	Poison Information Service (ES): +34 91 562 04 20
United Kingdom	NHS Direct (UK): +44 0845 46 47

#### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

REGULATION (EC) No 1272/2008

Acute Oral Toxicity	Category 3- H301
Acute Aquatic Toxicity	Acute 1- H400
Oxidizing solids.	Category 3- H272

Classification according to EU Directives 67/548/EEC or 1999/45/EC

## 2. HAZARDS IDENTIFICATION

For the full text of the R-phrases mentioned in this Section, see Section 16

**Classification**

O	- Oxidizing.
T	- Toxic.
N	- Dangerous For The Environment.

**Risk Phrases**

R8 Contact with combustible material may cause fire.  
 R25 Toxic if swallowed.  
 R50 Very toxic to aquatic organisms.

### Label Elements

#### Hazard Pictograms



**Signal Word**

**Danger**

#### **Hazard Statements**

H301 - Toxic if swallowed  
 H272 - May intensify fire; oxidizer  
 H400 - Very toxic to aquatic life

#### **Contains**

**Substances**  
 Sodium nitrite

**CAS Number**  
 7632-00-0

#### **Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P220 - Keep/Store away from clothing/ combustible materials  
 P221 - Take any precaution to avoid mixing with combustibles  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P280 - Wear protective gloves/eye protection/face protection  
 P273 - Avoid release to the environment  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P330 - Rinse mouth  
 P370 + P 378 - In case of fire: Use CO<sub>2</sub>, dry chemical, or foam  
 P391 - Collect spillage

#### **Other Hazards**

None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Sodium nitrite	231-555-9	7632-00-0	60 - 100%	O; R8 T; R25 N; R50	Acute Tox. 3 (H301) Aquatic acute 1 (H400) Ox. Sol. 3 (H272)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Eyes</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
<b>Skin</b>	Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and launder before reuse.
<b>Ingestion</b>	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

May cause eye and skin irritation. May effect the blood's ability to carry oxygen.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically

### 5. FIREFIGHTING MEASURES

#### Extinguishing media

##### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

##### Extinguishing media which must not be used for safety reasons

None known.

#### Special hazards arising from the substance of mixture

##### Special Exposure Hazards

Oxidizer. May ignite combustibles. Explodes when exposed to high temperatures, cyanides, organic materials or friction. Decomposition in fire may produce toxic gases.

#### Advice for firefighters

##### Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust. Use only competent persons for cleanup. See Section 12 for additional information

#### Environmental precautions

Prevent from entering sewers, waterways, or low areas.

#### Methods and material for containment and cleaning up

Scoop up and remove. Flush area with water.

#### Reference to other sections

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid creating or inhaling dust. Avoid contact with eyes, skin, or clothing. Avoid dust accumulations.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

### Conditions for safe storage, including any incompatibilities

Store away from combustibles. Store in a cool, dry location.

### Specific End Use(s)

Exposure Scenario No information available

Other Guidelines No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Sodium nitrite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Sodium nitrite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

### Exposure controls

#### Engineering Controls

Use in a well ventilated area. Localized ventilation should be used to control dust levels.

#### Personal protective equipment

##### Respiratory Protection

HEPA Respirator.

##### Hand Protection

Impervious rubber gloves.

##### Skin Protection

Rubber apron.

##### Eye Protection

Dust proof goggles.

##### Other Precautions

Eyewash fountains and safety showers must be easily accessible.

#### Environmental Exposure Controls

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State: Solid

Color: White to light straw

Odor: Odorless

Odor Threshold: No information available

#### Property

#### Values

Remarks/ Method

pH:

9

Melting Point/Range

No data available

Freezing Point/Range (C):

No data available

Boiling Point/Range

No data available

Flash Point

No data available

Evaporation rate

No data available

Vapor Pressure

No data available

Vapor Density

No data available

Specific Gravity

2.16

Water Solubility

Soluble in water

Solubility in other solvents

No data available

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

No data available

Decomposition Temperature

No data available

Viscosity

No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Other information****Molecular Weight**

69

**VOC Content (%)**

No data available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not applicable

**Chemical Stability**

Stable

**Possibility of Hazardous Reactions**

Will Not Occur

**Conditions to Avoid**

Keep away from heat, sparks and flame.

**Incompatible Materials**

Organic matter. All flammables, especially petroleum products, asphalt &amp; other volatile flammables. Ammonium compounds. Cyanides.

**Hazardous Decomposition Products**

Oxides of nitrogen. Caustic soda. Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects****Acute Toxicity****Inhalation**

May cause respiratory irritation. May reduce the blood's ability to transport oxygen (methemoglobinemia).

**Eye Contact**

May cause eye irritation.

**Skin Contact**

May cause skin irritation.

**Ingestion**

May reduce the blood's ability to transport oxygen (methemoglobinemia).

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 1% are chronic health hazards.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium nitrite	85 mg/kg	No data available	No data available

**Test species:**

Rat

## 12. ECOLOGICAL INFORMATION

**Toxicity****Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium nitrite	No information available	No information available	No information available	No information available

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

**Mobility in soil**

No information available

**Results of PBT and vPvB assessment**

No information available.

**Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal Method**

Disposal should be made in accordance with federal, state, and local regulations.

**Contaminated Packaging**

This bag may contain residue of a hazardous material. Some authorities may regulate such containers as hazardous waste. Dispose of container according to national or local regulations.

**14. TRANSPORT INFORMATION****IMDG/IMO**

**UN Number:** UN1500,  
**UN Proper Shipping Name:** Sodium Nitrite  
**Transport Hazard Class(es):** , 5.1, (6.1)  
**Packing Group:** , III  
**EMS:** EmS F-A, S-Q

**RID**

**UN Number:** UN1500,  
**UN Proper Shipping Name:** Sodium Nitrite  
**Transport Hazard Class(es):** , 5.1, (6.1)  
**Packing Group:** , III

**ADR**

**UN Number:** UN1500,  
**UN Proper Shipping Name:** Sodium Nitrite  
**Transport Hazard Class(es):** , 5.1, (6.1)  
**Packing Group:** , III

**IATA/ICAO**

**UN Number:** UN1500,  
**UN Proper Shipping Name:** Sodium Nitrite  
**Transport Hazard Class(es):** , 5.1, (6.1)  
**Packing Group:** , III

**Special Precautions for User**

None

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories****EINECS Inventory**

This product, and all its components, complies with EINECS

**US TSCA Inventory**

All components listed on inventory or are exempt.

**Canadian DSL Inventory**

All components listed on inventory or are exempt.

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

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DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering  
Classes (WGK)**

WGK 2: Hazard to waters.

**Chemical Safety Assessment**

No information available

<b>16. OTHER INFORMATION</b>
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**Full text of R-phrases referred to under Sections 2 and 3**

R8 Contact with combustible material may cause fire.

R25 Toxic if swallowed.

R50 Very toxic to aquatic organisms.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:**

20-Dec-2012

**Revision Note**

Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer Statement**

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**End of Safety Data Sheet**