## **HALLIBURTON**

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# **SODIUM NITRITE SOLUTION**

Revision Date: 07-Feb-2011 Revision Number: 1

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

**Product Identifier** 

Product Name SODIUM NITRITE SOLUTION

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

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN

United Kingdom

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

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For further information, please contact

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**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

+44 1224 /952// 01+	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)

P220 - Keep/Store away from clothing/ combustible materials

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

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 CO2, dry chemical, or foam

P391 - Collect spillage

## Other Hazards

None known

3 COMPOS	ITION/INFORMAT	TON ON INGREDIEN	TS
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Substances	EINECS	CAS Number	PERCENT	EEC	EU - CLP Substance	REACH No.
				Classification	Classification	
Sodium nitrite	231-555-9	7632-00-0	30 - 60%	O; R8	Acute Tox. 3 (H301)	No data available
				T; R25	Aquatic acute 1 (H400)	
				N; R50	Ox. Sol. 3 (H272)	

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

## 4. FIRST AID MEASURES

Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists. Remove

contaminated clothing and launder before reuse.

**Ingestion** 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 mediaó

## 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. 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

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. 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 contact with eyes, skin, or clothing. Avoid breathing mist.

**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

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

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Sodium nitrite	Not applicable				

**Derived No Effect Level (DNEL) Predicted No Effect Concentration**  No information available. No information available.

(PNEC)

**Exposure controls** 

**Engineering Controls** Use in a well ventilated area.

Personal protective equipment

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following respirator

is recommended:

HEPA Respirator.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

Chemical goggles; also wear a face shield if splashing hazard exists. **Eye Protection 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:** Liquid Color: Clear colorless to pale yellow Odor: Odorless Odor Threshold: No information available

**Property** 

Values

Remarks/ Method

pH:

No data available Melting Point/Range

Freezing Point/Range (C): -12

No data available120°C **Boiling Point/Range Flash Point** No data available **Evaporation rate** No data available No data available **Vapor Pressure Vapor Density** No data available

**Specific Gravity** 1.43

Soluble in water **Water Solubility** No data available Solubility in other solvents Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available **Viscosity** 

**Explosive Properties** No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Oxidizing Properties** 

No information available

Other information

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** 

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

**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

(methemaglobinemia).

**Eye Contact** May cause eye irritation. **Skin Contact** May cause skin irritation.

**Ingestion** May reduce the blood's ability to transport oxygen (methemalobinemia).

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** Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

#### IMDG/IMO

UN Number: UN3139

**UN Proper Shipping Name:** Oxidizing Liquid, N.O.S.

Transport Hazard Class(es): , 5.1
Packing Group: , III

EMS: EmS F-A, S-Q

**RID** 

UN Number: UN3139,

**UN Proper Shipping Name:** Oxidizing Liquid, N.O.S.

Transport Hazard Class(es): , 5.1 Packing Group: , III

**ADR** 

UN Number: UN3139,

**UN Proper Shipping Name:** Oxidizing Liquid, N.O.S.

Transport Hazard Class(es): , 5.1 Packing Group: , III

## IATA/ICAO

UN Number: UN3139,

**UN Proper Shipping Name:** Oxidizing Liquid, N.O.S.

**Transport Hazard Class(es):** , 5.1 **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.

All components listed on inventory or are exempt.

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

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

Germany, Water Endangering

Classes (WGK)

WGK 2: Hazard to waters.

## **Chemical Safety Assessment**

No information available

## **16. OTHER INFORMATION**

#### 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/

Revision Date: 07-Feb-2011
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**