

A Schlumberger Company

# Safety Data Sheet SODIUM BICARBONATE

# 1. Identification of the substance/preparation and of the Company/undertaking

1.1 Product identifier

Product nameSODIUM BICARBONATEProduct codePID1483

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

Recommended Use Drilling fluid additive.

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier Schlumberger Danmark ApS Tvaerkaj 2 6700 Esbjerg DENMARK +47 5157 7424

SDS@slb.com 1.4 Emergency Telephone Number

 Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44

 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

 Denmark
 Poison Control Hotline (DK): +45 82 12 12 12

# 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

- Health hazards Not classified
- Environmental hazards Not classified
- Physical Hazards Not classified

## 2.2 Label elements

## Signal word



#### None

#### Hazard statements

This product is not classified as hazardous therefore no (H) hazard statements assigned.

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

This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

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### Contains

Sodium hydrogen carbonate

#### 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

# 3. Composition/information on ingredients

#### 3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Component information	REACH registration number
Sodium hydrogen carbonate	205-633-8	144-55-8	60-100	Not classified	01-2119457606-3 2-xxxx

#### 3.2 Mixtures

Not applicable

# 4. First aid measures

### 4.1 First aid measures

Inhalation	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if irritation persists.
Eye Contact	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Get medical attention if any discomfort continues.
4.2. Most important symptoms and	effects, both acute and delayed
4.2. Most important symptoms and General advice	effects, both acute and delayed The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.
	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to



Ingestion	Please see Section 11. Toxicological Information for further information.	
Skin contact	Please see Section 11. Toxicological Information for further information.	
Eye contact	Please see Section 11. Toxicological Information for further information.	
4.3 Indication of any immediate medical attention and special treatment needed		
Notes to physician	Treat symptomatically.	

5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Fog, Alcohol Foam, CO2, Dry Chemical.

Extinguishing media which must not be used for safety reasons None known.

#### 5.2. Special hazards arising from the substance or mixture

#### **Unusual fire and explosion hazards** None known.

Hazardous combustion products Fire or high temperatures create: Carbon oxides (COx), Nitrogen oxides (NOx).

## 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

#### **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

# 6. Accidental release measures

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

Use personal protective equipment. See also section 8.

#### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

#### Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

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

#### Methods for containment

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

#### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.



# 6.4 Reference to other sections

See section 13 for more information.

# 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid dust formation.

#### **Hygiene Measures**

Use good work and personal hygiene practices to avoid exposure. When using do not eat, drink, smoke, sniff Wash hands and face before breaks and immediately after handling the product Remove contaminated clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions	Ensure adequate ventilation. Keep airborne concentrations below exposure limits.
Storage precautions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture Avoid contact with: Strong oxidizing agents
Storage class	Chemical storage.
Packaging materials	Use specially constructed containers only.
7.3 Specific end uses	

See Section 1.2.

# 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### **Exposure limits**

NUI = Nuisance dust, TWA 4mg/m<sup>3</sup> Respirable Dust, 10mg/m<sup>3</sup> Total Dust.

**Component Information** 

Chemical Name	EU OEL	Austria	Australia	Denmark
Sodium hydrogen carbonate	Not determined	Not determined	Not determined	Not determined
Chemical Name	Malaysia	France	Germany	Hungary
Sodium hydrogen carbonate	Not determined	Not determined	Not determined	Not determined
Chemical Name	New Zealand	Italy	Netherlands	Norway
Sodium hydrogen carbonate	Not determined	Not determined	Not determined	Not determined
Chemical Name	Poland	Portugal	Romania	Russia
Sodium hydrogen carbonate	Not determined	Not determined	Not determined	5 mg/m <sup>3</sup> MAC
Chemical Name	Spain	Switzerland	Turkey	UK
Sodium hydrogen carbonate	Not determined	Not determined	Not determined	Not determined

### 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering Controls

Ensure adequate ventilation. Mechanical ventilation or local exhaust ventilation is required.



# Personal protective equipment

Eye protection	Use eye protection according to EN 166, designed to protect against powders and dusts.
	Tightly fitting safety goggles. Safety glasses with side-shields.
Hand protection	Wear gloves according to EN 374 to protect against skin effects from powders Use protective gloves made of: Butyl PVC Frequent change is advisable
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment, Half mask with a particle filter P2 (European Norm EN 143 = former DIN 3181), At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
Skin and body protection	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
Hygiene Measures	Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing



### 8.2.3 Environmental exposure controls

**Environmental exposure** 

Use appropriate containment to avoid environmental contamination See section 6 for more information

# 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical state	Solid	
Appearance	Powder Dust	
Odor	Odorless	
Color	White	
Odor threshold	Not applicable	
Property_	<u>Values</u>	<b>Remarks</b>
рН	No information available	
pH @ dilution	8.1 - 8.4 @50 g/l	
Melting / freezing point	270 °C / 518 °F	
Boiling point/range	No information available	
Flash point	No information available	
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Bulk density	500 - 1150 kg/m³	
Relative density	2.21 - 2.23 s.g	@ 20°C.
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	> 50°C / 122°F	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
log Pow	No information available	

before re-use.



Explosive properties Oxidizing properties

9.2 Other information Pour point Molecular weight VOC content(%) Density No information available No information available

No information available No information available No information available No information available

#### Comments

The data listed above are typical physical and chemical properties and should not be construed as product specification.

# **10. Stability and reactivity**

#### 10.1 Reactivity

No specific reactivity hazards associated with this product.

#### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### 10.4 Conditions to avoid

Avoid dust formation. Protect from moisture.

#### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

See Section 5.2.

# **11.** Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity	
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Dust may cause mechanical irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause stomach discomfort.
Unknown acute toxicity	Not applicable.

### Toxicology data for the components



Chemical Name		LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydrogen carbonate		= 4220 mg/kg ( Rat )	No data available	No data available
Sensitization	This p	This product does not contain any components suspected to be sensitizing.		
Mutagenic effects	This p	This product does not contain any known or suspected mutagens.		
Carcinogenicity	This p	roduct does not contain any k	known or suspected carcinog	ens.
Reproductive toxicity	This p	roduct does not contain any k	known or suspected reproduc	ctive hazards.
Routes of exposure	Inhala	tion.		
Routes of entry	Inhala	tion.		
Specific target organ toxicity -	Not cla	assified		
Single exposure Specific target organ toxicity - Repeated exposure	Not cla	assified.		
Aspiration hazard	Not ap	oplicable.		

# 12. Ecological information

# 12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Listed on PLONOR list of OSPAR

#### Toxicity to algae

This product is not considered toxic to algae.

#### Toxicity to fish

This product is not considered toxic to fish.

#### Toxicity to daphnia and other aquatic invertebrates

This product is not considered toxic to invertebrates.

#### Toxicology data for the components

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Sodium hydrogen carbonate	8250 - 9000 mg/L LC50 Lepomis	= 650 mg/L EC50 Nitzschia linearis	= 2350 mg/L EC50 Daphnia magna
	macrochirus 96 h	120 h	48 h

### 12.2 Persistence and degradability

Not Applicable - Inorganic chemical.

#### 12.3 Bioaccumulative potential

Not Applicable - Inorganic chemical.



#### 12.4 Mobility

Mobility Soluble in water.

Mobility in soil No information available.

#### 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

#### 12.6 Other adverse effects.

None known.

# 13. Disposal considerations

#### 13.1 Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
EWC Waste Disposal No	According to the European Waste Catalog, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC waste disposal No: 06 03 14

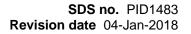
# 14. Transport information

14.1. UN number Not regulated

#### 14.2. UN proper shipping name The product is not covered by international regulation on the transport of dangerous goods

14.3 Hazard class(es)	
ADR/RID/ADN/ADG Hazard class	Not regulated
IMDG/ANTAQ Hazard class	Not regulated
ICAO/ANAC Hazard class/division	Not regulated
14.4 Packing group	

14.4 Facking group	
ADR/RID/ADN/ADG Packing group	Not regulated
IMDG/ANTAQ Packing group	Not regulated





ICAO/ANAC Packing group

Not regulated

14.5 Environmental hazard No

14.6 Special precautions Not applicable

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

Please contact SDS@slb.com for info regarding transport in Bulk.

# **15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

International inventories

USA (TSCA)	Complies
European Union (EINECS and ELINCS)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

## Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006.For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

**Denmark Pr. no:** 336787

# 15.2 Chemical Safety Report

No information available

# **16. Other information**

Prepared by

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Supersedes date	12-Nov-2014
Revision date	04-Jan-2018
Version	8
This SDS has been revised in the following section(s)	All sections Product Code change No changes with regard to classification have been made.

#### Full text of H-Statements referred to under sections 2 and 3

This product is not classified as hazardous therefore no (H) hazard statements assigned.

#### Disclaimer

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.