Safety data sheet number MI11693 Version 5 Revision date 12/Feb/2015 Supercedes date 21/Mar/2013



# Safety Data Sheet SODA ASH

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

### 1.1 Product identifier

Product name SODA ASH Product code MI11693

Synonyms SODIUM CARBONATE

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

Recommended use pH modifier

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

### Supplier identification

M-I Drilling Fluids UK Limited C/O Schlumberger Enterprise Drive Westhill Industrial Estate Westhill, AB32 6TQ Scotland UK +47 51577424 MISDS@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

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

**Health hazards** 

Serious eye damage/eye irritation Category 2

Environmental hazards Not classified

Physical Hazards Not classified

2.2 Label Elements





### **Hazard statements**

H319 - Causes serious eye irritation

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: 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

P501 - Dispose of contents/container in accordance with local regulations.

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

## Indication of danger

Xi - Irritant

## R-code(s)

R36

#### **Contains**

Sodium carbonate

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

### 2.3 Other data

# 3. Composition/information on ingredients

## 3.1 Substances

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Sodium carbonate	207-838-8	497-19-8	100	Xi; R36	Eye Irrit. 2 (H319)	No data available

## 3.2 Mixtures



Not Applicable

## 4. First aid measures

4.1 First Aid

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. Seek medical attention if irritation occurs.

**Skin contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation persists.

**Eye contact** Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

General advice 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.

Main symptoms

**Inhalation** Please see Section 11. Toxicological Information for further information.

**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 shall 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), Sodium oxides.

### 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 materials 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 and keep powder dry.

### 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 smoke, eat or drink. Wash hands before eating, drinking or smoking. Remove contaminated clothing.

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



**Technical measures/precautions** Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid contact with:

Oxidizing agents Acids Protect from moisture

Storage class Chemical storage.

7.3 Specific end uses

See also Section 1.2.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

**Exposure limits**The product does not contain any hazardous materials with occupational exposure limits

established.

Component	EU OEL - Third List	Austria	Australia	Denmark
Sodium carbonate	Not determined	Not determined	Not determined	Not determined
Component	Finland	France	Germany	Hungary
Sodium carbonate	Not determined	Not determined	Not determined	Not determined
Component	New Zealand	Italy	Netherlands	Norway
Sodium carbonate	Not Determined	Not determined	Not determined	Not determined
Component	Poland	Portugal	Romania	Russia
Sodium carbonate	Not determined	Not determined	Not determined	Not determined
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Component	Spain	Switzerland	Turkey	UK
Sodium 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 measures to

reduce exposure

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

Personal protective equipment

It is good practice to wear goggles when handling any chemical. Tightly fitting safety Eye protection

goggles.

**Hand protection** Repeated or prolonged contact:, Use protective gloves made of:, Neoprene, Rubber,

Frequent change is advisable.

No personal respiratory protective equipment normally required, In case of insufficient Respiratory protection

> ventilation wear suitable respiratory equipment, Half mask with a particle filter P2 (BS EN 143), 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.

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing Hygiene measures

before re-use.







## 9. Physical and chemical properties

@ 10 g/l

9.1 Information on basic physical and chemical properties

**Physical state** Solid **Appearance** Powder Dust Odour Odourless Colour White Odor threshold Not applicable

**Property** Values Remarks\_

No information available pН pH @ dilution > 12

Melting/freezing point 851 °C / 1564 °F Boiling point/range No information available Flash Point No information available

**Evaporation rate** No information available

Flammability (solid, gas) Not Applicable Flammability Limits in Air

**Upper flammability Limit** 

Not applicable Lower flammability limit Not applicable

No information available Vapor pressure



@ 20°C.

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Vapor densityNo information availableSpecific gravityNo information availableBulk densityNo information available

Relative density 2.53 sg

Water solubility Soluble in water

Solubility in other solvents No information available No information available

**Decomposition temperature** > 400°C (752°F)

Kinematic viscosity
Viscosity, dynamic

No information available
No information available

Log Pow Not determined

**Explosive properties**Not Applicable **Oxidizing properties**None known.

9.2 Other information

Pour pointNo information availableMolecular weightNo information available

VOC content(%) None

Density VALUE No information available

## 10. Stability and reactivity

### 10.1 Reactivity

Reacts violently with acids.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of Hazardous Reactions

### **Hazardous polymerization**

Hazardous polymerisation does not occur.

## 10.4 Conditions to avoid

Avoid dust formation. Protect from moisture.

### 10.5 Incompatible materials

Oxidizing agents. Acids.

## 10.6 Hazardous decomposition products

See also section 5.2.

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** 



**Inhalation** Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and

cough.

**Eye contact** Causes serious eye irritation.

**Skin contact** Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause stomach discomfort.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	= 4090 mg/kg ( Rat )	No data available	No data available

Sensitisation This product does not contain any components suspected to be sensitizing.

Mutagenic effects This product does not contain any known or suspected mutagens.

Carcinogenicity This product does not contain any known or suspected carcinogens.

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

Routes of exposure Eye contact.

Routes of entry No route of entry noted.

Specific target organ toxicity (single Not classified

exposure)

Specific target organ toxicity

(repeated exposure)

Not classified.

Aspiration hazard No hazard from product as supplied.

# 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

See component information below.

### Toxicity to fish

See component information below.



## Toxicity to daphnia and other aquatic invertebrates

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Sodium carbonate	300 mg/L LC50 (Lepomis macrochirus) = 96 h 310 - 1220 mg/L LC50 (Pimephales promelas) = 96 h	,	265 mg/L EC50 (Daphnia magna) = 48 h

### 12.2 Persistence and degradability

Not Applicable - Inorganic chemical.

### 12.3 Bioaccumulative potential

Not Applicable - Inorganic chemical.

### 12.4 Mobility in soil

## **Mobility**

Soluble in water.

## 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 transported/delivered using a registered waste carrier for local

recycling or waste disposal.



EWC waste disposal No.

According to the European Waste Catalogue, 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 02 05 Waste Code: 7091

## 14. Transport information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID/ADG).

### 14.1 UN number

Not regulated

### 14.2 Proper shipping name

Not regulated

14.3. Hazard class(es)

ADR/RID/ADN Hazard class
IMDG Hazard class
ICAO Hazard class/division

Not regulated
Not regulated

14.4 Packing group

ADR/RID/ADN Packing Group

IMDG Packing group

ICAO Packing group

Not regulated
Not regulated

### 14.5 Environmental hazard

No

### 14.6 Special precautions

Not Applicable

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

Please contact MISDS@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, Toxic Substances Control Act inventory (TSCA)** Complies **European Union - EINECS and ELINCS** Complies Complies Canada, Domestic Substance List (DSL) Complies **Philippines (PICCS)** Inventory - Japan - Existing and New Chemicals list Complies China (IECSC) Complies Australia (AICS) Complies Complies Korea (KECL) Inventory - New Zealand - Inventory of Chemicals (NZIoC) Complies

Contact REACH@miswaco.slb.com for REACH information.

### 15.2 Chemical Safety Report

No information available

## 16. Other information

Prepared by Global Chemical Regulatory Compliance (GCRC), Anne Karin (Anka) Fosse

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Version 5

### Text of R phrases mentioned in Section 3

R36 - Irritating to eyes

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

H319 - Causes serious eye irritation

### **Disclaimer**

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