

## Safety Data Sheet SAFE-CARB<sup>†</sup> (All Grades)

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

#### 1.1 Product identifier

Product name	SAFE-CARB <sup>†</sup> (All Grades)
Product code	MI11713
Synonyms	SAFE-CARB 2, 10, 20, 25, 40, 250, 500, 600, 750, 1400 and 2500.
REACH Registration Name	Exempt
Norway Pr. no.	N/A
Denmark Pr. no.	2175905

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

Recommended use	Lost circulation material. Weighting agent. Bridging material.
Uses advised against	None known.

#### 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  
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	Not classified
Environmental hazards	Not classified
Physical Hazards	Not classified

#### 2.2 Label Elements

-

-

**Contains**

Calcium carbonate

Crystalline silica (impurity)

-

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

**2.3 Other data**

Not classified as PBT/vPvB by current EU criteria

**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
Calcium carbonate		471-34-1	60-100	-	Not classified	No data available
Crystalline silica (impurity)	238-878-4	14808-60-7	<1	Xn; R48/20	STOT Rep. 2 - H373	No data available

**3.2 Mixtures**

Not Applicable

**Comment**

Naturally occurring mineral. This product contains a small quantity of quartz, crystalline silica. Prolonged and repeated exposure to concentrations of crystalline silica exceeding the workplace exposure limit (WEL) may lead to chronic lung disease such as silicosis. IARC Monographs, Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or cristobalite from occupational sources causes cancer in humans. IARC Classification Group I.

**4. First aid measures**

**4.1 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.

**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 off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

---

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

Use extinguishing media appropriate for surrounding material.

#### **Extinguishing media which shall not be used for safety reasons**

None known.

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

#### **Precautions against fire and explosion**

None known.

#### **Hazardous combustion products**

Fire or high temperatures create: Carbon oxides (CO<sub>x</sub>).

### **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.

**6.3 Methods and materials for containment and cleaning up**

**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**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**

Avoid contact with skin and eyes. Avoid dust formation.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. 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. Keep airborne concentrations below exposure limits.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture

**Storage class** Chemical storage.

**Packaging material** Use specially constructed containers only

**7.3 Specific end uses**

See also Section 1.2.

**8. Exposure Controls/Personal Protection**

**8.1 Control parameters**

Component	EU OEL - Third List	Austria	Australia	Denmark
Calcium carbonate	Not determined	Not determined	10 mg/m <sup>3</sup> TWA (containing no asbestos and <1% crystalline silica, inspirable dust)	Not determined

Crystalline silica (impurity)	Not determined	Not determined	0.1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup>
-------------------------------	----------------	----------------	---------------------------	-----------------------

Component	Finland	France	Germany	Hungary
Calcium carbonate	Not determined	10 mg/m <sup>3</sup>	Not determined	Not determined
Crystalline silica (impurity)	Not determined	0.1 mg/m <sup>3</sup>	Not determined	Not determined

Component	Ireland	Italy	Netherlands	Norway
Calcium carbonate	Not determined	Not determined	Not determined	Not determined
Crystalline silica (impurity)	Not determined	Not determined	0.075 mg/m <sup>3</sup>	0.3 mg/m <sup>3</sup> total dust 0.1 mg/m <sup>3</sup> respirable dust

Component	Poland	Portugal	Romania	Russia
Calcium carbonate	10 mg/m <sup>3</sup> TWA <2% free crystalline silica total inhalable dust	10 mg/m <sup>3</sup> TWA particulate matter containing no Asbestos and < 1% Crystalline silica	Not determined	Not determined
Crystalline silica (impurity)	2 mg/m <sup>3</sup> TWA >50% free crystalline silica total inhalable dust 0.3 mg/m <sup>3</sup> TWA >50% free crystalline silica respirable dust 4.0 mg/m <sup>3</sup> TWA 2% to 50% free crystalline silica total inhalable dust 1.0 mg/m <sup>3</sup> TWA 2% to 50% free crystalline silica respirable dust	0.025 mg/m <sup>3</sup> TWA respirable fraction	Not determined	3 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA aerosol

Component	Spain	Switzerland	Turkey	UK
Calcium carbonate	10 mg/m <sup>3</sup> VLA-ED	Not determined	Not determined	Not determined
Crystalline silica (impurity)	0.1 mg/m <sup>3</sup> VLA-ED respirable fraction	0.15 mg/m <sup>3</sup> MAK respirable	Not determined	0.3 mg/m <sup>3</sup> STEL calculated respirable 0.1 mg/m <sup>3</sup> TWA respirable

Component	ACGIH TLV	TWA / C
Calcium carbonate 471-34-1 ( 60-100 )	Not Determined	Not Determined
Crystalline silica (impurity) 14808-60-7 ( <1 )	0.025 mg/m <sup>3</sup>	total dust respirable fraction

**Derived No Effect Level (DNEL)**

**Long term exposure systemic effects**

**Calcium carbonate**

Inhalation 10 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC) .**

**Calcium carbonate**  
 Impact on Sewage Treatment 100 mg/l

## 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.

### Personal protective equipment

#### Eye protection

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

#### Hand protection

Repeated or prolonged contact: Use protective gloves made of: Nitrile, Neoprene.

#### Respiratory protection

No personal respiratory protective equipment normally required, In case of insufficient ventilation wear suitable respiratory equipment, Suitable mask with particle filter P3 (European Norm 143).

#### Skin and body protection

Wear suitable protective clothing, Provide eyewash station.

### Hygiene measures

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.



## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder Dust
<b>Odour</b>	Odourless
<b>Colour</b>	White
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	Not applicable	
pH regulating agent	8.5 - 9.5	@ 100 g/l
Melting/freezing point		
Boiling point/range	No information available	
Flash Point	No information available	
Evaporation rate		
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		
Upper flammability Limit	Not applicable	

Lower flammability limit	Not applicable	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	2.7 - 2.8	@ 20 °C
Bulk density	No information available	
Relative density	No information available	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	825 °C	
Kinematic viscosity		
Viscosity, dynamic	No information available	
Log Pow	Not determined	

Explosive properties	Not Applicable
Oxidizing properties	None known.

#### 9.2 Other information

Pour point	No information available
Molecular weight	No information available
VOC content(%)	None
Density VALUE	No information available

## 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 polymerisation does not occur.

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

No materials to be especially mentioned.

### 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 in high concentration may cause irritation of respiratory system.

**Eye contact** May cause slight irritation.

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

**Ingestion** Ingestion may cause stomach discomfort.

**Acute toxicity** .

Component	LD50 Oral	LD50 Dermal	LD50 Inhalation
Calcium carbonate	= 6450 mg/kg ( Rat )	No data available	No data available
Crystalline silica (impurity)	= 500 mg/kg ( Rat )	No data available	No data available

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

**Mutagenic effects** This substance has no evidence of mutagenic properties.

**carcinogenicity** This substance has no evidence of carcinogenic properties.

**Reproductive toxicity** None known.

**Routes of exposure** None known.

**Routes of entry** No route of entry noted.

**Specific target organ toxicity (single exposure)** Not classified

**Specific target organ toxicity (repeated exposure)** Not classified.

**Aspiration hazard** No hazard from product as supplied.

**12. Ecological Information**

**12.1 Toxicity**

**Ecotoxicity effects**  
 The product components 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**  
 Not considered toxic to fish.



**Toxicity to daphnia and other aquatic invertebrates**

Not considered toxic.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Calcium carbonate	No information available	No information available	No information available
Crystalline silica (impurity)	No information available	No information available	No information available

**12.2 Persistence and degradability**

Not Applicable - Inorganic chemical.

**12.3 Bioaccumulative potential**

Not Applicable - Inorganic chemical.

**12.4 Mobility in soil**

**Mobility**

Insoluble 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 03 99 - wastes not otherwise specified.

**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)**

**Hazard class** Not regulated

**14.4 Packing group**

**Packing group** Not regulated

**14.5 Environmental hazard**

No

**14.6 Special precautions**

**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**

**Germany, Water Endangering Classes (VwVwS)** Water endangering class = nwg

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.

Dutch Mining Regulations: In accordance with Mining Regulations 9.2 and Chapter 4 of the Working Conditions Decree.

**International inventories**

USA, Toxic Substances Control Act inventory (TSCA)	Complies
European Union - EINECS and ELINCS	Complies
Canada, Domestic Substance List (DSL)	Complies
Philippines (PICCS)	Complies
Inventory - Japan - Existing and New Chemicals list	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korea (KECL)	Complies
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

<b>Prepared by</b>	Global Chemical Regulatory Compliance (GCRC)
<b>Supersedes date</b>	11/Jan/2011
<b>Revision date</b>	02/Apr/2014
<b>Version</b>	7
<b>The following sections have been revised</b>	This SDS have been made in a new database and therefore a new layout. No changes with regard to classification have been made, Updated according to CLP.

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

Not classified

†A mark of M-I L.L.C.

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.