

Safety data sheet number MI13249  
Version 5  
Revision date 02/Jun/2015  
Supercedes date 14/Feb/2013



## Safety Data Sheet IRONITE SPONGE

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

#### 1.1 Product identifier

Product name	IRONITE SPONGE
Product code	MI13249
REACH Registration Name	Exempt Annex V ENTRY 7.
Denmark Pr. no.	701684

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

Recommended use	Hydrogen Sulphide Scavenger.
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Uses advised against	Consumer use
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#### 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

<b>Norway</b>	Poison information centre: +47 22 59 13 00
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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards	Not classified
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Environmental hazards	Not classified
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Physical Hazards	Not classified
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#### 2.2 Label Elements

**Signal word**

None

**Hazard statements**

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

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

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**Contains**

IRON OXIDE

Quartz, Crystalline silica

**2.3 Other data**

Not classified as PBT/vPvB by current EU criteria

**3. Composition/information on ingredients**

**3.1 Substances**

Not Applicable

**3.2 Mixtures**

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
IRON OXIDE	Not Listed	Proprietary	60-100	-	Not classified	Exempt
Quartz, Crystalline silica	238-878-4	14808-60-7	< 1	Xn; R48/20	STOT REP. 2(H373)	Exempt

**Comments**

The product contains other ingredients which do not contribute to the overall classification. 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 First Aid**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	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**

##### **Unusual fire and explosion hazards**

None known.

##### **Hazardous combustion products**

Fire or high temperatures create: Metal fumes.

#### **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**

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

#### **Methods for cleaning up**

Avoid generating or breathing dust. Take up mechanically and collect in suitable container 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. Do not breathe dust. Provide appropriate exhaust ventilation at places where dust is formed.

#### **Hygiene measures**

Use good work and personal hygiene practices to avoid exposure Do not eat, drink or smoke when using this product 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. Avoid dust formation.

**Storage precautions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container Avoid heat, flames and other sources of ignition. Avoid wet and humid conditions. Avoid contact with: Strong oxidising agents Strong acids.

**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
IRON OXIDE	Not determined	Not determined	5 mg/m <sup>3</sup> TWA (fume, as Fe)	3.5 mg/m <sup>3</sup> TWA
Quartz, Crystalline silica	Not determined	Not determined	0.1 mg/m <sup>3</sup> TWA	0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup> TWA K

Component	Malaysia	France	Germany	Hungary
IRON OXIDE	2 ppm TWA 5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup>	Not determined	Not determined
Quartz, Crystalline silica	0.1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup>	Not determined	Not determined

Component	New Zealand	Italy	Netherlands	Norway
IRON OXIDE	5 mg/m <sup>3</sup> TWA	Not determined	Not determined	3 mg/m <sup>3</sup> TWA 6 mg/m <sup>3</sup> STEL
Quartz, Crystalline silica	0.2 mg/m <sup>3</sup> TWA Known or presumed human carcinogen	0.05 mg/m <sup>3</sup>	0.075 mg/m <sup>3</sup> GW	0.3 mg/m <sup>3</sup> TWA total dust 0.1 mg/m <sup>3</sup> TWA respirable dust 0.9 mg/m <sup>3</sup> STEL total dust 0.3 mg/m <sup>3</sup> STEL respirable dust Carcinogen

Component	Poland	Portugal	Romania	Russia
IRON OXIDE	10 mg/m <sup>3</sup> STEL Fe fume 5 mg/m <sup>3</sup> TWA Fe fume	5 mg/m <sup>3</sup> TWA Fe respirable fraction	Not determined	6 mg/m <sup>3</sup> TWA aerosol Fibrogenic substance

Quartz, Crystalline silica	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	1 mg/m <sup>3</sup> MAC 3 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA aerosol Fibrogenic substance
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Component	Spain	Switzerland	Turkey	UK
IRON OXIDE	5 mg/m <sup>3</sup> VLA-ED dust and fume	3 mg/m <sup>3</sup> MAK respirable	Not determined	10 mg/m <sup>3</sup> STEL fume 30 mg/m <sup>3</sup> STEL calculated total inhalable 12 mg/m <sup>3</sup> STEL calculated respirable 5 mg/m <sup>3</sup> TWA fume 10 mg/m <sup>3</sup> TWA total inhalable 4 mg/m <sup>3</sup> TWA respirable
Quartz, Crystalline silica	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

## 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. Local exhaust ventilation.

### Personal protective equipment

#### Eye protection

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

#### Hand protection

Use protective gloves made of:., Rubber or plastic gloves, Frequent change is advisable.

#### Respiratory protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust), Suitable mask with particle filter P3 (European Norm 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.

**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**

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

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No information available	
pH @ dilution	7	@ 1%
Melting/freezing point	1565 °C / 2849 °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	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
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	No information available	
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	2.0 g/cm <sup>3</sup>

Particle Size (Micron) 1.5 - 50

**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**  
 Not known.

**10.4 Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid wet and humid conditions. Avoid dust formation.

**10.5 Incompatible materials**

Strong oxidising agents. Strong acids.

**10.6 Hazardous decomposition products**

See also section 5.2.

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Product information** 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.

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** MAY CAUSE EYE IRRITATION.

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

**Ingestion** Ingestion may cause stomach discomfort.

**Unknown acute toxicity** Not Applicable.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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IRON OXIDE	> 10000 mg/kg ( Rat )	No data available	No data available
Quartz, Crystalline silica	= 500 mg/kg ( Rat )	No data available	No data available

<b>Sensitisation</b>	This product does not contain any components suspected to be sensitizing.
<b>Mutagenic effects</b>	This product does not contain any known or suspected mutagens.
<b>Carcinogenicity</b>	Crystalline silica dust is listed by IARC in Group 1 as known to cause lung cancer in humans, if inhaled.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Routes of exposure</b>	Inhalation.
<b>Routes of entry</b>	Inhalation.
<b>Specific target organ toxicity (single exposure)</b>	Not classified
<b>Specific target organ toxicity (repeated exposure)</b>	Not classified.
<b>Aspiration hazard</b>	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.

**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.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
IRON OXIDE	No information available	No information available	No information available
Quartz, Crystalline silica	No information available	No information available	No information available

**12.2 Persistence and degradability**

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The product solely consists of inorganic compounds which are not biodegradable.

**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. Waste Code: 7091 Inorganic salts and other solids.

## 14. Transport information

**14.1 UN number**

Not regulated

**14.2 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 Hazard class Not regulated  
ICAO Hazard class/division Not regulated

**14.4 Packing group**

ADR/RID/ADN/ADG Packing Group Not regulated  
IMDG Packing group Not regulated  
ICAO Packing group 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**

Germany, Water Endangering Classes (VwVwS) Water endangering class = 0

Australian Standard for the Uniform Scheduling of Drugs and Poisons

IRON OXIDE  
Schedule 4  
Schedule 6  
Schedule 5

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

Prepared by	Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Catherine Mansell
Supersedes date	14/Feb/2013
Revision date	02/Jun/2015
Version	5
The following sections have been revised	This SDS have been made in a new database and therefore a new layout. No changes with regard to classification have been made.

### Text of R phrases mentioned in Section 3

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

### 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.  
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

### 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.