



**SAFETY DATA SHEET**  
**SALT GEL**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product Name SALT GEL

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

Identified uses Viscosifier

**1.3. Details of the supplier of the safety data sheet**

Supplier: M-I SWACO  
A Schlumberger Company  
Endeavour Drive  
Arnhall Business Park, Westhill  
Aberdeen AB32 6UF  
Scotland UK  
T = +44 (0)1224-742200  
F = +44 (0)1224-742288  
E-mail = MBXMSDS-EH@miswaco.slb.com

**1.4. Emergency telephone number**

(24 Hour) Europe +44 (0) 1235 239 670, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Middle East and Africa +44 (0) 1235 239 671, Australia +61 2801 44558.

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

Classification (67/548/EEC) Not classified.

**Human Health**

This product contains a small quantity of quartz, crystalline silica. 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 1. Because of quantity and composition, the health hazard is small.

**2.2. Label elements**

Risk Phrases  
NC Not classified.

Safety Phrases  
NC Not classified.

**2.3. Other hazards**

Not Classified as PBT/vPvB by current EU criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

FULLER'S EARTH	90-99%
CAS-No.: 8031-18-3	EC No.:
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

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QUARTZ, CRYSTALLINE SILICA	1-10%
CAS-No.: 14808-60-7	EC No.: 238-878-4
Classification (EC 1272/2008) STOT Rep. 2 - H373	Classification (67/548/EEC) Xn;R48/20.
MAGNESIUM OXIDE	1-2%
CAS-No.: 1309-48-4	EC No.: 215-171-9
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

The data shown is in accordance with the latest EC Directives. 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. Because of quantity and composition, the health hazard is small.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

Inhalation.

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Do not induce vomiting. Get medical attention.

Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the 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

Inhalation.

Irritation of nose, throat and airway.

Ingestion

May cause discomfort if swallowed.

Skin Contact

Prolonged skin contact may cause redness and irritation.

Eye Contact

May cause temporary eye irritation.

##### 4.3. Indication of any immediate medical attention and special treatment needed

Get medical attention if any discomfort continues.

#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

Extinguishing Media

Dry chemicals. Foam.

Unsuitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>).

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

Hazardous Combustion Products

When heated, vapours/gases hazardous to health may be formed.

Unusual Fire & Explosion Hazards

High concentrations of dust may form explosive mixture with air.

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**5.3. Advice for firefighters**

Special Fire Fighting Procedures

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

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

Do not allow to enter drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

**6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
MAGNESIUM OXIDE	WEL		4 mg/m3		10 mg/m3	as Mg
QUARTZ, CRYSTALLINE SILICA	WEL		0,1 mg/m3			

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

**8.2. Exposure controls**

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

Wear suitable respiratory protection. Dust filter P2 (for fine dust).

Hand Protection

Use protective gloves made of: Rubber or plastic.

Eye Protection

Wear dust resistant safety goggles where there is danger of eye contact.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**SALT GEL****9.1. Information on basic physical and chemical properties**

Appearance	Powder, dust
Colour	Tan
Odour	Odourless
Solubility	Insoluble in water
Melting Point (°C)	> 1250
Relative Density	2.2-2.8 @ 20 °c
Bulk Density	368-880 kg/m <sup>3</sup>
pH-Value, Diluted Solution	8-9.5

**9.2. Other information**

Not relevant.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not known.

**10.4. Conditions to avoid**

Contact with unsaturated organic compounds may produce heat if moisture content of product is low.

**10.5. Incompatible materials**

Materials To Avoid

Unsaturated organic compounds. Vegetable oils.

**10.6. Hazardous decomposition products**

When heated, vapours/gases hazardous to health may be formed.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Inhalation

Dust may irritate respiratory system or lungs. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion.

May cause discomfort if swallowed.

Skin Contact

Prolonged and frequent contact may cause redness and irritation.

Eye Contact

Particles in the eyes may cause irritation and smarting.

Health Warnings

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. Because of quantity and composition, the health hazard is small.

Route of entry

Inhalation.

Target Organs

Respiratory system, lungs

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity:

Contact M-I SWACO's QHSE Department for ecological information at env@miswaco.com.

**12.1. Toxicity**

Acute Fish Toxicity

Not considered toxic to fish.

**12.2. Persistence and degradability**

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## Degradability:

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

**12.3. Bioaccumulative potential**

## Bioaccumulative Potential:

No data available on bioaccumulation.

**12.4. Mobility in soil**

## Mobility:

The product is 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.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

## General

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

**14.1. UN number**

Not applicable.

**14.2 UN Proper shipping name**

Not applicable.

**14.3 Transport hazard class(es)**

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations. Control of Substances Hazardous to Health Regulations 2002 (as amended)

Workplace Exposure Limits EH40.

## EU Legislation

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 1999/45/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.

**15.2. Chemical Safety Assessment**

## International Chemical Inventories

Contact REACH@miswaco.com for REACH information. Complies with the following national/regional chemical inventory requirements:

AICS, DSL / NDSL, IECSC, TCCL ECL, NZIoC, PICCS, TSCA,

**SECTION 16: OTHER INFORMATION**

**SALT GEL**

## General Information

HMIS Health -1 HMIS Physical Hazard - 0 E - Safety glasses, Gloves, Dust Respirator HMIS Flammability - 0

## Information Sources

Material Safety Data Sheet, Misc. manufacturers. LOLI. European Chemicals Bureau - ESIS (European Chemical Substances Information).

## Revision Comments

Compiled or Revised by Ewan MacLeod

Issued By Bill Cameron

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Revision 4

Supersedes Date 30-03-07

SDS No. 10348

## Risk Phrases In Full

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

NC Not classified.

## Hazard Statements In Full

H373 May cause damage to organs &lt;&lt;Organs&gt;&gt; through prolonged or repeated exposure.

## Disclaimer

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.