



**SAFETY DATA SHEET**  
**Ammonium Bisulphite Solution (65%)**

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

**1.1. Product identifier**

**Product name** Ammonium Bisulphite Solution (65%)

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

**Identified uses** Oxygen Scavenger

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

**Supplier** M-I SWACO  
A Schlumberger Company  
Koppholen 23  
4313 Sandnes  
NORWAY  
Tel.: +47 51 57 73 00  
SDS@slb.com  
**Contact Person** Ingrid Helland, telephone: +47 51 57 74 24.

**1.4. Emergency telephone number**

(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.

**SECTION 2: HAZARDS IDENTIFICATION**

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

**Classification (EC 1272/2008)**

Physical and Chemical Hazards Not classified.  
Human health EUH031; Eye Irrit. 2 - H319  
Environment Not classified.

**Classification (1999/45/EEC)** Xi; R36. R31.

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

**2.2. Label elements**

**Label In Accordance With (EC) No. 1272/2008**



**Signal Word** Warning

**Hazard Statements**

H319 Causes serious eye irritation.

**Precautionary Statements**

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/attention.  
P403+233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with national regulations.



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### Specific hazards

Contact with acids liberates toxic gas.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

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

#### Protective equipment for fire-fighters

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. Avoid discharge onto the ground.

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

Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Absorb spillage with suitable absorbent material. Shovel into dry containers. Cover and move the containers. Flush the area with water.

### 6.4. Reference to other sections

For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from: Oxidising materials. and Acids. Contact with acids liberates toxic gas.

#### Storage Class

Chemical storage.

### 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
SULPHUR DIOXIDE	WEL	1 ppm	2.6 mg/m <sup>3</sup>	1 ppm	2.6 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective equipment



#### Process conditions

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.

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### Engineering measures

Provide adequate general and local exhaust ventilation.

### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with inorganic vapour cartridge (Grey B). Gas cartridge (acid gases). At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

### Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Use: Polyvinyl chloride (PVC). Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

### Eye protection

Wear approved safety goggles.

### Other Protection

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

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes wet or contaminated.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<u>Appearance</u>	Clear liquid.
<u>Colour</u>	Colourless to pale yellow.
<u>Odour</u>	Sulphur.
<u>Solubility</u>	Soluble in water.
<u>Melting point (°C)</u>	< 0°C
<u>pH-Value, Conc. Solution</u>	4.5 - 5.5
<u>Flash point</u>	N/A

### 9.2. Other information

<u>Density</u>	1.32 - 1.39 g/ml (20°C)
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Contact with acids liberates toxic gas. Sulphur dioxide. Contact with alkalis. Releases Ammonia gas (NH<sub>3</sub>).

### 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

Avoid contact with acids and alkalis. Temperatures above 50°C.

### 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidising substances.

### 10.6. Hazardous decomposition products

Sulphurous gases (SO<sub>x</sub>). Sulphur dioxide. Ammonia. Nitrous gases (NO<sub>x</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Inhalation

May cause irritation to the respiratory system.

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### Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

### Skin contact

Prolonged and frequent contact may cause redness and irritation.

### Eye contact

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

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.

### 12.1. Toxicity

#### Acute Fish Toxicity

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### 12.2. Persistence and degradability

#### Degradability

Not applicable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

Not applicable.

### 12.4. Mobility in soil

#### Mobility:

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### 13.1. Waste treatment methods

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

#### Waste Class

The definitive European Waste code for this product will depend upon the final use that is made of this material. EWC-code: 06 01 99

Waste number: 7131. Inorganic acids.

## 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

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Not applicable.

**14.3. Transport hazard class(es)****Transport Labels**

No transport warning sign required.

**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**

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

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

Chemicals (Hazard Information &amp; Packaging) Regulations.

**Guidance Notes**

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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**15.2. Chemical Safety Assessment****International Chemical Inventories**

European Union REACH - All components comply with REACH regulations. Contact REACH@miswaco.com if further information is required. Complies with the following national/regional chemical inventory requirements: Europe (EINECS / ELINCS), Australia (AICS), China (IECSC), New Zealand (NZIoC), Phillipines (PICCS), United States (TSCA). Canada (DSL / NDSL), Japan (METI / ENCS), Korea (TCCL / ECL),

**SECTION 16: OTHER INFORMATION****Information Sources**

Product information provided by the commercial vendor(s). Material Safety Data Sheet, Misc. manufacturers. LOLI. European Chemicals Bureau - ESIS (European Chemical Substances Information).

**Revision Comments**

General revision. Revised by Ingrid Helland

<b>Issued By</b>	Nina B. Øvrehus
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<b>Date</b>	09.09.2009
<b>Signature</b>	Nina B. Øvrehus
<b>Signature 2</b>	Ingrid Helland

**Ammonium Bisulphite Solution (65%)****Risk Phrases In Full**

R31 Contact with acids liberates toxic gas.  
R36 Irritating to eyes.

**Hazard Statements In Full**

EUH031 Contact with acids liberates toxic gas.  
H319 Causes serious eye irritation.

## 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.