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

1.1 Product identifier

- **Product name**: SODIUM CHLORIDE POWDER (SALT PVD or GRANULAR SALT)
- **Product code**: MI11332
- **Synonyms**: Sodium chloride, NaCl
- **Molecular weight**: 58.44 g/mol
- **REACH registration name**: Exempt
- **Denmark Pr. no.**: 701625

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

- **Recommended Use**: Additive in oilfield applications
- **Uses advised against**: Consumer use

1.3 Details of the supplier of the safety data sheet

**Supplier**
M-I Australia Pty Ltd
Level 5
256 St. George Terrace
Perth
WA 6000
T= 08 9440 2900
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
- **Denmark**: Poison Control Hotline (DK): +45 82 12 12 12
- **Norway**: Poison information centre: +47 22 59 13 00

2. Hazards identification

2.1 Classification of the substance or mixture

- **Classification according to (EC) No. 1272/2008**
  - **Health hazards**: Not classified
  - **Environmental hazards**: Not classified
  - **Physical Hazards**: Not classified

2.2 Label elements
Signal word
Not applicable

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

Precautionary Statements - EU (§28, 1272/2008)
This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

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

Indication of danger
Not classified

Contains
Sodium chloride

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

2.3 Other data
Not classified as PBT/vPvB by current EU criteria

Australian statement of hazardous/dangerous nature
 Classified as Non-Hazardous according to the criteria of NOHSC.
 NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>EC-No.</th>
<th>CAS-No</th>
<th>Weight % - range</th>
<th>Classification (67/548)</th>
<th>Classification (Reg. 1272/2008)</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>231-598-3</td>
<td>7647-14-5</td>
<td>60-100</td>
<td>-</td>
<td>Not classified</td>
<td>No data available</td>
</tr>
</tbody>
</table>

3.2 Mixtures

Not Applicable

4. First aid measures

4.1 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

Unusual fire and explosion hazards  
None.

Hazardous combustion products  
Fire or high temperatures create: Chlorine, chlorine oxides, hydrogen chloride.

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.

**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**
Handle in accordance with good industrial hygiene and safety practice. When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product.

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

**Technical measures/precautions**
Ensure adequate ventilation. Keep airborne concentrations below exposure limits.

**Storage precautions**
Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid contact with: Strong acids. Oxidizing agents Metals

**Storage class**
Chemical storage.

**Packaging material**
Use specially constructed containers only

**Packaging materials to be avoided**
Metal

#### 7.3 Specific end uses

See Section 1.2.

---

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

**Exposure limits**
NUI = Nuisance dust, TWA 4mg/m³ Respirable Dust, 10mg/m³ Total Dust.
No biological limit allocated

<table>
<thead>
<tr>
<th>Component</th>
<th>EU OEL</th>
<th>Austria</th>
<th>Australia</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
### 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. Be aware that liquid may penetrate the gloves. Frequent change is advisable.

- **Respiratory protection**
  - No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment, Half mask with a particle filter P2 (European Norm EN 143 = former DIN 3181).

- **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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH @ dilution</td>
<td>7</td>
<td>1%</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>801 °C</td>
<td></td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>1461 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate (BuAc =1)</td>
<td>Not Applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>1 mmHg</td>
<td>@ 865 °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>800 - 1600 kg/m³</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
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<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pour point</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>58.44 g/mol</td>
</tr>
<tr>
<td>VOC content(%)</td>
<td>None</td>
</tr>
<tr>
<td>Density</td>
<td>2.1615 g/cm³</td>
</tr>
</tbody>
</table>

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 polymerization does not occur.

10.4 Conditions to avoid

Avoid dust formation.
10.5 Incompatible materials

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.

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>= 3 g/kg (Rat)</td>
<td>&gt; 10 g/kg (Rabbit)</td>
<td>&gt; 42 g/m³ (Rat) 1 h</td>
</tr>
</tbody>
</table>

Sensitization
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
None known.

Routes of exposure
Inhalation. Eye contact.

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
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**
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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to fish</th>
<th>Toxicity to algae</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>5560 - 6080 mg/L LC50 (Lepomis macrochirus) = 96 h 12946 mg/L LC50 (Lepomis macrochirus) = 96 h 4747 - 7824 mg/L LC50 (Oncorhynchus mykiss) = 96 h 7050 mg/L LC50 (Pimephales promelas) = 96 h 6420 - 6700 mg/L LC50 (Pimephales promelas) = 96 h 6020 - 7070 mg/L LC50 (Pimephales promelas) = 96 h</td>
<td>No information available</td>
<td>340.7 - 469.2 mg/L EC50 (Daphnia magna) = 48 h 1000 mg/L EC50 (Daphnia magna) = 48 h</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not Applicable - Inorganic chemical.

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil

**Mobility**
The product is water soluble, and may spread in water systems.

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 taken for local recycling, recovery 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 14

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
Not regulated
IMDG Hazard class
Not regulated
ICAO Hazard class/division
Not regulated

14.4 Packing group
ADR/RID/ADN 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)
Hazardous to water/Class 1

Australian Standard for the Uniform Scheduling of Drugs and Poisons
No Poisons Schedule number allocated

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.


Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

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

International inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA (TSCA)</td>
<td></td>
</tr>
<tr>
<td>European Union (EINECS and ELINCS)</td>
<td></td>
</tr>
<tr>
<td>Canada (DSL)</td>
<td></td>
</tr>
<tr>
<td>Philippines (PICCS)</td>
<td></td>
</tr>
<tr>
<td>Japan (ENCs)</td>
<td></td>
</tr>
<tr>
<td>China (IECSC)</td>
<td></td>
</tr>
<tr>
<td>Australia (AICs)</td>
<td></td>
</tr>
<tr>
<td>Korean (KECL)</td>
<td></td>
</tr>
<tr>
<td>New Zealand (NZIoC)</td>
<td></td>
</tr>
</tbody>
</table>

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), Sarah Malone

Supersedes date: 26/Mar/2014

Revision date: 06/Feb/2015

Version: 8

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, Updated according to GHS/CLP.
Text of R phrases mentioned in Section 2 and 3
Not classified

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.
Not classified

Disclaimer
The information provided in this 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 guidance 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.