

**SAFETY DATA SHEET**  
**(Australia)**  
According to the criteria of NOHSC:2011(2003)

Version: 1

Revision date: 18 March 2011

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** Temporary Clay Stabilizer L64

**Product Code:** L064

**Company Identification:** Schlumberger Oilfield Australia Pty Ltd  
ABN: 74 002 459 225  
ACN: 002 459 225  
256 St. Georges Terrace, Perth WA 6000

**Emergency Telephone Number:** 1-800-039-008 (24hr)

**Use of the Substance/Preparation:** Surfactant in oilfield applications.

**2. HAZARDS IDENTIFICATION**

**Indication of danger:** T - Toxic. N - Dangerous for the environment.

**Most important hazards**

**R-phrases(s):** Harmful in contact with skin. Toxic if swallowed.

**Risk Combination Phrases** Irritating to eyes and skin.

**S-phrases(s):** S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60 - This material and its container must be disposed of as hazardous waste. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

**Safety Combination Phrases:** S36/37 - Wear suitable protective clothing and gloves.

**Environmental hazard:** Very toxic to aquatic organisms. Should not be released into the environment.

**Main physical hazards:** None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No	EC-No.	Weight % - Range	Classification
Tetramethylammonium chloride	75-57-0	200-880-8	30 - 60	T;R21-25 Xi;R36/37/38 R50

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. Seek medical attention if irritation occurs. In case of feeling unwell.
<b>Skin contact:</b>	Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention.
<b>Eye contact:</b>	Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention at once.
<b>Ingestion:</b>	Immediately give large quantities of water to drink. Call a physician or poison control centre immediately.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water Fog, Alcohol Foam, CO2, Dry Chemical. Water spray.
<b>Extinguishing media which must not be used for safety reasons:</b>	None known.
<b>Special protective equipment for firefighters:</b>	Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.
<b>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:</b>	Thermal decomposition can lead to release of irritating gases and vapours.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. See also section 8.
<b>Environmental precautions:</b>	Prevent further leakage or spillage. Keep out of waterways. Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Methods for cleaning up:</b>	Dam up. Soak up with inert absorbent material. Shovel into suitable container for disposal. See also section 13.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	
<b>Technical measures/Precautions: Safe handling advice:</b>	Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Wear suitable protective equipment. See also section 8.
<b>Storage:</b>	

<b>Technical measures/Storage conditions:</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Packaging requirements:</b>	Steel or high density polyethylene (HDPE) container.
<b>Incompatible products:</b>	Oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures to reduce exposure:</b>	No special technical protective measures required
<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required.
<b>Hand protection:</b>	Impervious gloves made of: Nitrile Rubber
<b>Eye protection:</b>	Tightly fitting safety goggles.
<b>Skin and body protection:</b>	Chemical resistant apron.

### Environmental exposure controls

#### Exposure limit(s)

Component	Australia - Occupational Exposure Standards - TWAs	Australia - Occupational Exposure Standards - STELs
Tetramethylammonium chloride	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form:</b>	Liquid
<b>Odour:</b>	None
<b>Colour:</b>	Colorless

### Important Health, Safety and Environmental Information

<b>pH:</b>	7
<b>Boiling point/range:</b>	No data available.
<b>Flash point:</b>	Does not flash.
<b>Explosive properties:</b>	
<b>Explosion data - sensitivity to mechanical impact:</b>	None known
<b>Explosion data - sensitivity to static discharge:</b>	None known
<b>Flammability Limits in Air:</b>	
<b>lower:</b>	Not applicable
<b>upper:</b>	Not applicable
<b>Oxidizing properties:</b>	None
<b>Relative density:</b>	1.0 (@ 20°C)
<b>Solubility:</b>	
<b>Water solubility:</b>	Soluble
<b>Fat solubility:</b>	No information available.
<b>Partition coefficient (n-octanol/water):</b>	See also section 12

<b>Viscosity:</b>	6 mPa.s
<b>Vapour density:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Evaporation rate:</b>	No information available.

#### Other information

<b>Melting point/range:</b>	-34 °C
-----------------------------	--------

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	None reasonably foreseeable.
<b>Materials to avoid:</b>	Oxidizing agents
<b>Hazardous decomposition products:</b>	If heated strongly or burned, oxides of carbon and nitrogen, ammonia, chlorine oxides, hydrogen chloride and organic fumes are released.
<b>Hazardous polymerization:</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Local effects

<b>Skin:</b>	Irritant; may cause pain, redness, dermatitis.
<b>Eyes:</b>	Severe eye irritation. Causes pain and redness. Prolonged or repeated contact may cause mild burn.
<b>Inhalation:</b>	May be mildly irritating.
<b>Ingestion:</b>	Toxic; can cause illness or death. May be mildly irritating.
<b>Sensitization - skin:</b>	Not known to cause allergic reaction.

### Chronic Health Hazard

<b>Carcinogenic effects:</b>	None known.
<b>Mutagenic effects:</b>	Not known to cause heritable genetic damage.
<b>Teratogenic effects:</b>	Not known to cause birth defects or have a deleterious effect on a developing fetus.
<b>Reproductive toxicity:</b>	No information available

<b>Component</b>	<b>LD50 / LC50</b>
<i>Tetramethylammonium chloride</i>	- = 50 mg/kg (Oral LD50; Rat) mg/kg (oral-rat)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Aquatic toxicity:**

Very toxic to aquatic organisms.

## COMPONENT INFORMATION

*Tetramethylammonium chloride*

**Bioaccumulation:**

log Pow = <0

**Persistence and degradability:**

No information available

**Crustacean toxicity:**

48h LC50= <1 mg/l (Acartia tonsa)

**Freshwater Fish Species Data**

LC50 96 h (Pimephales promelas) = 431-495 mg/L

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Dispose of as special waste in compliance with local and national regulations

**Contaminated packaging:**

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal

## 14. TRANSPORT INFORMATION

**UN number:**

UN 2810

**Shipping name:**

TOXIC LIQUID, ORGANIC, N.O.S. (Tetramethylammonium chloride)

### ADR/RID

**Class:** 6.1  
**Classification Code:** T1  
**Packing Group:** III  
**ADR/RID-Labels:** 6.1  
**Hazard ID:** 60

### IMDG/IMO

**Class or Div.:** 6.1  
**Label(s):** 6.1  
**Packing Group:** III  
**EmS:** F-A, S-A

### ICAO/IATA

<b>Class or Div.:</b>	6.1	
<b>Label(s):</b>	6.1	
<b>Packing group:</b>	III	
<b>Packing instruction (passenger aircraft):</b>	655	<b>Max Net Qty/Pkg:</b> 60 L
<b>Packing instruction (cargo aircraft):</b>	663	<b>Max Net Qty/Pkg:</b> 220 L

## 15. REGULATORY INFORMATION

In accordance with the criteria of NOHSC

contains: Tetramethylammonium chloride .

**Indication of danger:**

- T - Toxic
- N - Dangerous for the environment



**R-phrases(s):**

- R21 - Harmful in contact with skin
- R25 - Toxic if swallowed.
- R50 - Very toxic to aquatic organisms.
- R36/37/38 - Irritating to eyes, respiratory system and skin.

**S-phrases(s):**

- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
- S36/37 - Wear suitable protective clothing and gloves.

**International Inventories**

**Australia (AICS):**

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

**Text of R phrases mentioned in Section 3**

- R50 - Very toxic to aquatic organisms.
- R25 - Toxic if swallowed.
- R21 - Also harmful in contact with skin.
- R36/37/38 - Irritating to eyes, respiratory system and skin.

**Prepared by:** Chemical Regulatory Compliance

The information and recommendations contained herein are based upon tests believed to be reliable. However, Schlumberger does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Schlumberger assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**