# **HALLIBURTON**

# SAFETY DATA SHEET

# BE-9

30-Sep-2014 **Revision Number: 15 Revision Date:** 

# 1. Product and Company Identification

**Product Name** 

**Product Trade Name:** BE-9

**Other Names** 

Synonyms: None **Product Code:** HM006583

**Recommended Use** 

**Recommended Use** Biocide

No information available **Uses Advised Against** 

**Company Name, Address and Contact Details** 

Manufacturer/Supplier Halliburton New Zealand

1 Paraite Rd,

Bell Block, New Plymouth

New Zealand Registration No.: 824207

fdunexchem@halliburton.com E-Mail address:

**Emergency Telephone Number** +64-6-7559274

**New Zealand National Poisons** 

Centre

0800 764 766 (24 hours)

# 2. Hazard(s) Identification

#### **Statement of Hazardous Nature**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

# Classification

8.2C Corrosive to dermal tissue if exposed for greater than 1 hour

8.3A Corrosive to ocular tissue

## **Hazard and Precautionary Statements**

# **Hazard Pictograms**



Signal Word Danger

**Hazard Statements** H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

**Precautionary Statements** 

Prevention P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P104 - Read Safety Data Sheet before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

Response P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container to an approved incineration plant

#### **Contains**

Substances	CAS Number	Substance HSNO Classification
Tributyl tetradecyl phosphonium chloride	81741-28-8	8.2C
		8.3A

## 2.3. Other Hazards

None known

# 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Tributyl tetradecyl phosphonium chloride	81741-28-8	5 - 10%

# 4. First-Aid Measures

#### **Requirements for First Aid or Medical Care**

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water for

at least 15 minutes and get medical attention immediately after flushing.

Wash with soap and water. Get medical attention if irritation persists. Remove

contaminated clothing and launder before reuse. Remove contaminated shoes and

discard.

**Ingestion** If swallowed, do NOT induce vomiting. Give victim two glasses of water, Call a

physician immediately. Never give anything by mouth to an unconscious person.

#### **Workplace Facilities Required**

None

Skin

#### **Relation to Health Effect**

# **Most Important Symptoms/Effects**

May cause eye and skin burns. May be harmful if swallowed. May be harmful if inhaled

## **Medical Attention and Special Treatment**

Notes to Physician

Treat symptomatically

# 5. Fire-fighting measures

#### Type of Hazard

#### Flammability Hazard

Non-flammable

## 5.1. Extinguishing media

## Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

#### **HAZCHEM Code**

Hazchem Code:

2X

# **Special Protective Equipment and Precautions for Fire Fighters**

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### **Special Exposure Hazards**

Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways. Use water spray to cool fire exposed surfaces.

# 6. Spillage, Accidental Release Measures

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

Use appropriate protective equipment.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

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

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

#### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

## 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

#### **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse. Do NOT consume food, drink, or tobacco in contaminated areas.

#### **Handling Practices**

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

## **Approved Handlers**

This product does NOT require an approved handler.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool well ventilated area. Keep container closed when not in use. Store away from direct sunlight. Store in a dry location. Store in a manner to prevent commingling with incompatible materials. Store away from alkalis. Store away from reducing agents. Store locked up.

## **Store Site Requirements**

No special controls required

## **Packaging**

No special packaging required

# 8. Exposure Controls and Personal Protection

#### **Workplace Exposure Standards**

**Exposure Limits** 

Expectate Ellitto				
Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA	
Tributyl tetradecyl	81741-28-8	Not applicable	Not applicable	
phosphonium chloride				

**Engineering Controls** 

**Engineering Controls**Use in a well ventilated area. Local exhaust ventilation should be used in areas without

good cross ventilation.

Personal Protective Equipment (PPE)

Respiratory Protection If engineering controls and work practices cannot keep exposure below occupational

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Dust/mist respirator. (N95, P2/P3)

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct

contact (recommended: protection index 6, corresponding to > 480 minutes permeation

time as per EN 374): Neoprene gloves. (>= 0.75 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be

observed because of great diversity of types.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain jacket,

pants or coverall, as appropriate, to prevent skin contact.

**Eye Protection**Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions Hygiene Measures**Chemical goggles; also wear a face shield if splashing hazard exists.

Eyewash fountains and safety showers must be easily accessible.

Handle in accordance with good industrial hygiene and safety practice

# 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Clear colorless

Odor: Slight Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

<del>pH:</del> 6-8

Freezing Point/Range No data available Melting Point/Range No data available

Boiling Point/Range 100 °C

Flash Point
Evaporation rate
Vapor Pressure
Vapor Density

No data available
No data available
No data available
No data available

Specific Gravity 0.95 - 1.0

**Water Solubility** Miscible with water Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature** No data available **Decomposition Temperature** Viscosity No data available No information available **Explosive Properties Oxidizing Properties** No information available

9.2. Other information

VOC Content (%) No data available

# 10. Stability and Reactivity

## 10.2. Chemical Stability

Stable

#### 10.4. Conditions to Avoid

None anticipated

## 10.5. Incompatible Materials

Reducing agents. Strong alkalis.

## 10.6. Hazardous Decomposition Products

Chlorine. Phosphorus acids. Carbon monoxide and carbon dioxide.

**Hazardous Reactions** 

Hazardous Polymerization: Will Not Occur

# 11. Toxicological Information

# Health Effect from Likely Routes of Exposure

**Acute Toxicity** 

**Inhalation** May cause respiratory irritation. May be harmful if inhaled.

**Eye Contact** May cause eye burns.

**Skin Contact** May cause skin burns. Harmful if absorbed through the skin.

**Ingestion** May be harmful if swallowed.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are

chronic health hazards.

**Toxicity Data** 

## Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tributyl tetradecyl	81741-28-8	< 2000 mg/kg (Rat)	No data available	0.9 mg/L (Rat)
phosphonium chloride				

# 12. Ecological Information

## 12.1. Toxicity

**Ecotoxicity Effects** 

## **Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data** 

Substance Ecotoxicit	ly Dala				
Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to
				Microorganisms	Invertebrates
Tributyl tetradecyl	81741-28-8	No information available	LC50(96h): 0.46 mg/L	No information available	EC50(48h): 0.025 mg/L
phosphonium chloride			(Onchorhynchus mykiss)		(Daphnia magna)
			LC50(96h): 0.06 mg/L		TLM96: 1.6 mg/L
			(Lepomis macrochirus)		(Crangon crangon)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Tributyl tetradecyl phosphonium chloride	81741-28-8	(0% @ 28d)

#### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Tributyl tetradecyl phosphonium chloride	81741-28-8	< 3

#### 12.4. Mobility in soil

No information available

## **Ecotoxicity Hazard Statements**

None known

#### 12.6. Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# 13. Disposal Considerations

13.1. Waste treatment methods

**Disposal Method**Disposal should be made in accordance with federal, state, and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local

regulations. Substance should NOT be deposited into a sewage facility.

Contaminated Packaging Follow all applicable national or local regulations. Contaminated packaging may be

disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste

collection.

# 14. Transport Information

IMDG/IMO

UN Number: UN2922

**UN Proper Shipping Name:** Corrosive Liquid, Toxic, N.O.S. (contains Tributyl Tetradecyl Phosphonium Chloride)

Transport Hazard Class(es): 8
Subsidiary Hazard: (6.1)
Packing Group: ||

**Environmental Hazards:** Not applicable EMS: EmS F-A, S-B

NZ 5433.1999

UN Number: UN2922

**UN Proper Shipping Name:** Corrosive Liquid, Toxic, N.O.S. (contains Tributyl Tetradecyl Phosphonium Chloride)

Transport Hazard Class(es): 8
Subsidiary Hazard: (6.1)
Packing Group: ||

IATA/ICAO

UN Number: UN2922

**UN Proper Shipping Name:** Corrosive Liquid, Toxic, N.O.S. (contains Tributyl Tetradecyl Phosphonium Chloride)

Transport Hazard Class(es): 8
Subsidiary Hazard: (6.1)
Packing Group: II

Special Precautions for User: None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

# 15. Regulatory Information

**New Zealand Inventory of** 

Chemicals

This product does not comply with NZIOC

HSNO Approval Number HSR002491

Group Name Additives, Process Chemicals and Raw Materials (Corrosive HSR002491)

HSNO Controls Refer to the NZ EPA website for more information: http://www.epa.govt.nz

Approved Handlers Not Applicable

Poisons Schedule: None Allocated

# 16. Other information, including date of preparation or last revision

# The following sections have been revised since the last issue of this SDS

Section 15. Regulatory Information

Additional information For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact

Chemical Compliance at 1-580-251-4335.

## Key literature references and sources for data

www.ChemADVISOR.com/ NZ CCID

Revision Date: Revision Note Not applicable 30-Sep-2014

#### **Disclaimer Statement**

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**End of Safety Data Sheet**