### **HALLIBURTON**

# SAFETY DATA SHEET

## **BA-40L BUFFERING AGENT**

Revision Date: 09-Apr-2015 Revision Number: 21

1. Product Identifier & Identity for the Chemical

Statement of Hazardous Nature Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised

System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods

according to the criteria of ADG.

1.1. Product Identifier

Product Name BA-40L BUFFERING AGENT

Other means of Identification

Synonyms: None Product Code: HM000099

Recommended use of the chemical and restrictions on use

Recommended Use Buffer

Uses Advised Against No information available

Supplier's name, address and phone number

Manufacturer/Supplier Halliburton Australia Pty. Ltd.

15 Marriott Road Jandakot WA 6164 Australia

ACN Number: 009 000 775

Telephone Number: + 61 1 800 686 951

Fax Number: 61 (08) 9455 5300

E-Mail address: fdunexchem@halliburton.com

Emergency phone number

+ 61 1 800 686 951

**Australian Poisons Information Centre** 

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

2. Hazard Identification

Statement of Hazardous Nature Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised

System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods

according to the criteria of ADG.

Classification of the hazardous chemical

Serious Eye Damage / Eye Irritation	Category 2 - H319
Specific Target Organ Toxicity - (Single Exposure)	Category 3 - H335

Label elements, including precautionary statements

**Hazard Pictograms** 



Signal Word Warning

Hazard Statements
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

**Precautionary Statements** 

Prevention P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection/face protection

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

for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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

Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

Substances CAS Number
Potassium carbonate 584-08-7

#### Other hazards which do not result in classification

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

#### **Australia Classification**

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

Classification Xi - Irritant.

**Risk Phrases** 

R36/37 Irritating to eyes and respiratory system.

### 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - Australia
Potassium carbonate	584-08-7	30 - 60%	Eye Irrit. 2 (H319) STOT SE 3 (H335)

### 4. First aid measures

Description of necessary first aid measures

**Inhalation** If inhaled, move victim to fresh air and seek 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.

**Skin** In case of contact, immediately flush skin with plenty of soap and water for at least

15 minutes. Get medical attention. Remove contaminated clothing and launder

before reuse.

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

#### Symptoms caused by exposure

Causes eye irritation May cause respiratory irritation.

### **Medical Attention and Special Treatment**

Notes to Physician Treat symptomatically

### 5. Fire Fighting Measures

### Suitable extinguishing equipment

#### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

### Extinguishing media which must not be used for safety reasons

None known.

### Specific hazards arising from the chemical

### **Special Exposure Hazards**

Decomposition in fire may produce harmful gases.

#### 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.

### 6. Accidental release measures

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

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation. Evacuate all persons from the area.

#### 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.

### 7. Handling and storage

### 7.1. Precautions for Safe Handling

### **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Use appropriate protective equipment.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

### **Storage Information**

Store away from acids. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 24 months.

#### **Other Guidelines**

No information available

### 8. Exposure Controls/Personal Protection

### Control parameters - exposure standards, biological monitoring

**Exposure Limits** 

Substances	CAS Number	Australia NOHSC	ACGIH TLV-TWA
Potassium carbonate	584-08-7	Not applicable	Not applicable

Appropriate 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)

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the

selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this

product.

Respiratory Protection Wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, AS/NZS

1715:2009, or equivalent respirator when product vapor or mist is present.

Hand Protection Impervious rubber gloves.

**Skin Protection** Rubber apron.

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

Other Precautions None known.

Environmental Exposure Controls Do not allow material to contaminate ground water system

### 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Clear colorless

Odor: Odorless Odor Threshold: No information available

Property Values
Remarks/ - Method

**pH**: 13 - 14

Freezing Point/Range
Melting Point/Range
No data available
No data available
No data available
No data available
130 °C / 266 °F
Flash Point
No data available
Evaporation rate
No data available
Vapor Pressure
No data available
Vapor Density
No data available

Specific Gravity 1.496

Water Solubility
Soluble in water
Solubility in other solvents
No data available
Partition coefficient: n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Soluble in water
No data available
No data available
No data available
No data available

Explosive Properties
No information available
No information available
No information available

9.2. Other information

VOC Content (%) Not applicable.

### 10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

#### **BA-40L BUFFERING AGENT**

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong acids. Contact with acids and lime dust will cause the formation of potassium hydroxide and sodium hydroxide.

### 10.6. Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

### 11. Toxicological Information

Information on routes of exposure

**Principle Route of Exposure** Eye or skin contact, inhalation.

Sympotoms related to exposure

**Most Important Symptoms/Effects** 

Causes eye irritation May cause respiratory irritation.

### Numerical measures of toxicity

### Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium carbonate	584-08-7	1870 mg/kg (Rat) > 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.96 mg/L (Rat) 4.5 h

### Immediate, delayed and chronic health effects from exposure

Inhalation May cause respiratory irritation.

**Eye Contact** Causes eye irritation. **Skin Contact** May cause mild skin irritation.

Irritation of the mouth, throat, and stomach. Ingestion

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are chronic health hazards. There is no evidence of carcinogenicity for the middle

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distillates present in this product.

### **Exposure Levels**

No data available

#### Interactive effects

None known.

### **Data limitations**

No data available

Substances	CAS Number	Skin corrosion/irritation
Potassium carbonate	584-08-7	Not irritating to skin in rabbits.
Substances	CAS Number	Eye damage/irritation
Potassium carbonate	584-08-7	Causes moderate eye irritation.
Substances	CAS Number	Skin Sensitization
Potassium carbonate	584-08-7	Did not cause sensitization on laboratory animals (guinea pig)
Substances	CAS Number	Respiratory Sensitization
Potassium carbonate	584-08-7	No information available
Substances	CAS Number	Mutagenic Effects
Potassium carbonate	584-08-7	In vitro tests did not show mutagenic effects
Substances	CAS Number	Carcinogenic Effects

#### **BA-40L BUFFERING AGENT**

Potassium carbonate	584-08-7	Did not show carcinogenic effects in animal experiments (similar substances)
Substances	CAS Number	Reproductive toxicity
Potassium carbonate		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Substances	CAS Number	STOT - single exposure
Potassium carbonate		May cause respiratory irritation.
Substances	CAS Number	STOT - repeated exposure
Potassium carbonate		No significant toxicity observed in animal studies at concentration requiring classification. (similar
		substances) (
Substances	CAS Number	Aspiration hazard
Potassium carbonate	584-08-7	Not applicable

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## 12. Ecological Information

#### **Ecotoxicity**

### **Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
				Microorganisms	
Potassium carbonate	584-08-7	No information available	LC50 (96h) 68 mg/L	No information available	EC50 (48h) 200 mg/L
			(Oncorhynchus mykiss)		(Daphnia pulex)

### 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Potassium carbonate	584-08-7	The methods for determining biodegradability are
		not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Potassium carbonate	584-08-7	No information available

### 12.4. Mobility in soil

Substances	CAS Number	Mobility
Potassium carbonate	584-08-7	No information available

### 12.6. Other adverse effects

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

### 13. Disposal Considerations

### Safe handling and disposal methods

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

### Disposal of any 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.

### **Environmental regulations**

Not applicable

# 14. Transport Information

<u>Transportation Information</u>

Not restricted **UN Number: UN Proper Shipping Name:** Not restricted Transport Hazard Class(es): Not applicable Packing Group: Not applicable **Environmental Hazards:** Not applicable

#### Special precautions during transport

None

HazChem Code None Allocated

### 15. Regulatory Information

### Safety, health and environmental regulations specific for the product

**International Inventories** 

**Australian AICS Inventory New Zealand Inventory of** 

Chemicals

**EINECS Inventory** 

**US TSCA Inventory Canadian DSL Inventory**  All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

All components listed on inventory or are exempt. All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

Poisons Schedule number

None Allocated

### 16. Other information

#### Date of preparation or review

**Revision Date:** 09-Apr-2015

**Revision Note Revision Note** 

SDS sections updated: 2

#### Full text of R-phrases referred to under Sections 2 and 3

R36/37 Irritating to eyes and respiratory system.

### Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

**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 Stewardship at 1-580-251-4335.

#### Key abreviations or acronyms used

bw - body weight CAS - Chemical Abstracts Service EC50 - Effective Concentration 50% LC50 - Lethal Concentration 50% LD50 Lethal Dose 50% LL50 – Lethal Loading 50% mg/kg – milligram/kilogram mg/L – milligram/liter NOEC – No Observed Effect Concentration OEL - Occupational Exposure Limit PBT - Persistent Bioaccumulative and Toxic ppm - parts per million STEL -Short Term Exposure Limit TWA - Time-Weighted Average vPvB - very Persistent and very Bioaccumulative h - hour mg/m3 milligram/cubic meter mm - millimeter mmHg - millimeter mercury w/w - weight/weight d - day

### Key literature references and sources for data

www.ChemADVISOR.com/ NZ CCID

### **Disclaimer Statement**

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**End of Safety Data Sheet**