

SAFETY DATA SHEET

Product Trade Name:
BA-40L BUFFERING AGENT

Revision Date:
04-Feb-2022

Revision Number:
31

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

Product Identifier

Product Trade Name:
BA-40L BUFFERING AGENT

Synonyms

None

Chemical Family

Carbonate

Internal ID Code

HM000099

Recommended use and restrictions on use

Application

Buffer

Uses advised against

Consumer use

Manufacturer's Name and Contact Details

Manufacturer/Supplier

Halliburton Energy Services
14th Floor, CitiBank Tower, Al-Qutayat Street
Dubai, UAE
Telephone Number : +971 43036666

Additional Information

Prepared By

Chemical Stewardship
e-mail: fdunexchem@halliburton.com

Emergency Telephone Number

1-760-476-3959
Global Incident Response Access Code: 334305
Contract Number: 14012

2. HAZARDS IDENTIFICATION

Classification System

This SDS was prepared in accordance with United Nations "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" and its revisions.

Classification

Acute Oral Toxicity	Category 5 - H303
Serious Eye Damage / Eye Irritation	Category 2 - H319
Specific Target Organ Toxicity - (Single Exposure)	Category 3 - H335

Hazard Pictograms

**Signal Word**

Warning

Hazard Statements

H303 - May be harmful if swallowed

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 protective gloves/protective clothing/eye protection/face protection

Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

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 to an approved waste disposal plant

Contains**Substances**

Potassium carbonate

CAS Number

584-08-7

Additional Information

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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w)	GHS Classification
Potassium carbonate	584-08-7	30 - 60%	Acute Tox. 5 (H303) Eye Irrit. 2 (H319) STOT SE 3 (H335)

4. FIRST AID MEASURES**First-aid Measures****Inhalation**

If inhaled, move victim to fresh air and seek medical attention.

Skin

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

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.

Ingestion

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

Most important symptoms and effects, both acute and delayed

Causes eye irritation. May cause respiratory irritation. May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE FIGHTING MEASURES**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

Decomposition in fire may produce harmful gases.

Special protective actions for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES**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.

Environmental Precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Additional Information

See Section 8 and 13 for additional information.

7. HANDLING AND STORAGE**Precautions for safe handling**

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.

Conditions for safe storage, including any incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Limits**

Substances	CAS Number	United Arab Emirates	Bahrain	Kuwait	Gulf Cooperation Council
Potassium carbonate	584-08-7	Not applicable	Not applicable	Not applicable	Not applicable

Appropriate engineering controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Individual protection measures, such as 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

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

Impervious gloves Manufacturer's directions for use should be observed because of great diversity of types.

Skin Protection

Rubber apron.

Eye Protection

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

Other Precautions

None known.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State:**

Liquid

Color

Clear colorless

Odor:

Odorless

Odor Threshold:

No information available

pH:

13 - 14

Specific Gravity

1.496

Freezing Point/Range (°C):

No information available

Pour Point/Range (C):

No information available

Boiling Point/Range (C):

No information available

Flash Point/Range (°C):

No data available

Flash Point Method:

Not determined

Flammability Limits in Air - Lower (%):

No information available

Flammability Limits in Air - Upper (%):

No information available

Autoignition Temperature (°C):

No information available

Evaporation Rate (Butyl Acetate=1):

No information available

Vapor Pressure

No data available

Vapor Density (Air=1):

No information available

Water Solubility

Soluble in water

Decomposition Temperature (C):

No information available

Viscosity, Dynamic:

No data available

Viscosity, Kinematic:

No information available

Partition Coefficient/n-Octanol/Water:

No information available

Molecular Weight (g/mole):

No information available

10. STABILITY AND REACTIVITY**Reactivity**

Not expected to be reactive.

Chemical Stability

Stable

Possibility of hazardous reactions

Will Not Occur

Conditions to Avoid

None anticipated

Incompatible materials

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

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Additional Guidelines

Not Applicable

11. TOXICOLOGICAL INFORMATION**Information on Toxicological Effects****Acute Toxicity****Inhalation**

Causes moderate respiratory irritation.

Eye Contact

Causes eye irritation.

Skin Contact

Not irritating to skin in rabbits.

Ingestion

May be harmful if swallowed. Irritation of the mouth, throat, and stomach.

Chronic Effects/Carcinogenicity

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

Toxicology data for the components

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

Substances	CAS Number	Skin corrosion/irritation
Potassium carbonate	584-08-7	Not irritating to skin in rabbits. Based on available data, the classification criteria are not met.

Substances	CAS Number	Serious 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	Based on available data, the classification criteria are not met.
Substances	CAS Number	Mutagenic Effects
Potassium carbonate	584-08-7	In vitro tests did not show mutagenic effects.
Substances	CAS Number	Carcinogenic Effects
Potassium carbonate	584-08-7	Did not show carcinogenic effects in animal experiments (similar substances)
Substances	CAS Number	Reproductive toxicity
Potassium carbonate	584-08-7	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	584-08-7	May cause respiratory irritation.
Substances	CAS Number	STOT - repeated exposure
Potassium carbonate	584-08-7	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Substances	CAS Number	Aspiration hazard
Potassium carbonate	584-08-7	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Potassium carbonate	584-08-7	No information available	LC50(96h) 230 mg/L (Lepomis macrochirus) (LC50 (96h) 68 mg/L (Oncorhynchus mykiss)	No information available	EC50 (48h) 200 mg/L (Daphnia pulex)

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.

Bioaccumulation potential

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

Mobility in soil

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

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal methods**

Dispose in accordance with local regulations.

Contaminated Packaging

Follow all applicable national or local regulations.

Other Information

No information available

14. TRANSPORT INFORMATION**UN Number**

Not restricted

UN proper shipping name:

Not restricted

Transport Hazard Class(es):

Not applicable

Packing Group:

Not applicable

Environmental Hazards:

Not applicable

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**Regulatory Information:**

This SDS was prepared in accordance with United Nations "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" and its revisions.

NFPA Ratings:

Health 2, Flammability 0, Reactivity 1

16. OTHER INFORMATION**Key literature references and sources for data**

www.ChemADVISOR.com/

NZ CCID

Revision Date:

04-Feb-2022

Revision Note

SDS sections updated:

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End of Safety Data Sheet