HALLIBURTON

SAFETY DATA SHEET

BARAD-658™

Revision Date: 02-Mar-2023 Revision Number: 9

1. Identification

Product identifier

Product Name BARAD-658™

Other means of identification

Hazardous Material Number: HM007946

Recommended use of the chemical and restrictions on use

Recommended Use Cement Additive

Supplier details

Halliburton Energy Services Halliburton Energy Services Halliburton Energy Services

Av. Amazonas N37-29 y Villalengua Edif., Carrera 7 No. 71-52, Floor 7, Torre B, Avenida

Quito, Ecuador Bogotá, Colombia

Avenida Principal De Santa Rita Sector

Punta

Santa Rita, WES, Venezuela

For further information, please contact:

E-mail Address fdunexchem@halliburton.com

Emergency Phone number

US/Canada: +1-760-476-3962

Peru: 5116 1867 77

Argentina: +54 11 5219 8871 Chile: +56 44 8905208 Colombia: +57 1 344 1317 Panama: +50 78 387596

Global Incident Response Access Code: 334305

Contract Number: 14012

2. Hazards Identification

Classification of the hazardous chemical

Label Elements

Hazard Pictograms

Signal Word: None

Hazard Statements Not Classified

Precautionary Statements

PreventionNoneResponseNoneStorageNone

Disposal None

Contains

Substances CAS Number

Contains no hazardous substances in concentrations above

cut-off values according to the competent authority

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).

3. Composition/Information on Ingredients

Product Classification: Substance

Substances	CAS Number	PERCENT (w/w)	GHS Classification
Contains no hazardous substances in	NA	60 - 100%	Not classified
concentrations above cut-off values			
according to the competent authority			

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First Aid Measures

Description of first aid measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

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

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

attention.

Most important symptoms and effects, both acute and delayed

No significant hazards expected.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable extinguishing media

Suitable Extinguishing Media

All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

Physicochemical hazards arising from the chemical

Special exposure hazards in a fire

Decomposition in fire may produce harmful gases.

Special protective equipment and precautions for fire fighters

Special protective equipment for firefighters

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 creating and breathing dust.

See Section 8 for additional information.

Environmental precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

Scoop up and remove.

7. Handling and storage

Precautions for safe handling

Avoid creating or inhaling dust.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry location. Product has a shelf life of 24 months.

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits

Substances	CAS Number	Venzuela	Colombia	Argentina
Contains no hazardous substances in	NA	Not applicable	Not applicable	Not applicable
concentrations above cut-off values				
according to the competent authority				

Appropriate engineering controls

Engineering ControlsUse in a well ventilated area.

Individual protection measures, such as personal protective equipment

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 Normal work gloves.

Skin Protection Normal work coveralls.

Eye Protection Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

Environmental Exposure Controls No information available

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State:SolidColorRed to Brown-blackOdor:SweetOdor Threshold:No information available

Property

Remarks/ - Method

pH: 7-9 (1%)

Freezing Point / Range

Melting Point / Range

No data available
No data available

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Values

Pour Point / RangeNo data availableBoiling Point / RangeNo data availableFlash PointNo data availableEvaporation rateNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 1.37

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

Other information

VOC Content (%) No data 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 oxidizers.

Hazardous decomposition products

Oxides of nitrogen. Oxides of sulfur. Carbon monoxide and carbon dioxide.

11. Toxicological Information

Information on possible routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

Most Important Symptoms/Effects

No significant hazards expected.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous substances in	NA	No data available	No data available	No data available
concentrations above cut-off values according to the competent				
authority				

Immediate, delayed and chronic health effects from exposure

Inhalation May cause mild respiratory irritation.

Eye Contact May cause mild eye irritation.

Skin ContactNone known.IngestionNone known.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are

chronic health hazards.

12. Ecological Information

Ecotoxicity

12.1. Toxicity

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
				Microorganisms	
Contains no	NA	No information available	No information available	No information available	No information available
hazardous substances					
in concentrations					
above cut-off values					
according to the					
competent authority					

Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Contains no hazardous substances in	NA	No information available
concentrations above cut-off values according to		
the competent authority		

Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Contains no hazardous substances in	NA	No information available
concentrations above cut-off values according to		
the competent authority		

Mobility in soil

Substances	CAS Number	Mobility
Contains no hazardous substances in concentrations	NA	No information available
above cut-off values according to the competent authority		

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. Disposal Considerations

Disposal methods

Disposal methods

Bury in a licensed landfill 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.

14. Transport Information

Transportation Information

UN Number
UN proper shipping name:
Not restricted
Not restricted
Not applicable
Packing Group:
Not applicable
Not applicable
Not applicable

IMDG/IMO

UN Number
UN proper shipping name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable

IATA/ICAO

UN Number
UN proper shipping name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not applicable
Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Special precautions for user

None

15. Regulatory Information

International Agreements

Montreal Protocol - Ozone Depleting Substances:Does not apply.Stockholm Convention - Persistent Organic Pollutants:Does not apply.Rotterdam Convention - Prior Informed Consent:Does not apply.Basel Convention - Hazardous Waste:Does not apply.

NFPA Ratings: Health 1, Flammability 1, Reactivity 0

Health 1, Flammability 1, Physical Hazard 0, PPE: B

16. Other Information

Revision Date: 02-Mar-2023

Revision Note Update to Format

Key literature references and sources for data

www.ChemADVISOR.com/

NZ CCID

Key or legend to abbreviations and acronyms used in the safety data sheet

bw - body weight

CAS - Chemical Abstracts Service

EC10 – Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 – Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

NTP - National Toxicology Program

OEL – Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL – Permissible Exposure Limit

ppm - parts per million

PROC - Process category

STEL - Short Term Exposure Limit

h - hour

d - day

Disclaimer Statement

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End of Safety Data Sheet

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