

SAFETY DATA SHEET

Product Trade Name: MC B-8810A

Revision Date: 11-Mar-2022 Revision Number: 2

1. Identification

1.1. Product Identifier

Product Trade Name: MC B-8810A

Synonyms None
Chemical Family: Blend
Internal ID Code MB000674

1.2 Recommended use and restrictions on use

Application: Biocide
Uses advised against Consumer use

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier

Multi-Chem Group LLC

A Halliburton Energy Services, Inc. Company

3000 N. Sam Houston Pkwy E., Houston, TX 77032

Phone: 1-281-871-4000

Halliburton Group Canada 645 - 7th Ave SW Suite 1800 Calgary, AB, T2P 4G8, Canada Telephone: 1-403-231-9300

Prepared By Chemical Stewardship

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number:

Emergency Telephone Number 1-866-519-4752 or 1-760-476-3962 (accessible 24 hours a day / 7 days a week)

Global Incident Response Access Code: 334305

Contract Number: 14012

2. Hazards Identification

2.1 Classification in accordance with paragraph (d) of §1910.1200

Skin Corrosion / Irritation	Category 2 - H315
Serious Eye Damage/Irritation	Category 1 - H318
Acute Aquatic Toxicity	Category 2 - H401
Chronic Aquatic Toxicity	Category 3 - H412

2.2. Label Elements

Hazard Pictograms



Signal Word: Danger

Hazard Statements H315 - Causes skin irritation

H318 - Causes serious eye damage

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

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

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response P302 + P352 - IF ON SKIN: Wash with plenty of water.

P362 + P364 - Take off contaminated clothing and wash before reuse P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P391 - Collect spillage

Storage None

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Hazards not otherwise classified

None known

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Didecyldimethylammonium chloride	7173-51-5	5 - 10%	Acute Tox. 4 (H302)
			Skin Corr. 1B (H314)
			Eye Corr. 1 (H318)
			STOT SE 3 (H335)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
Ethanol	64-17-5	1 - 5%	Eye Irrit. 2A (H319)
			Flam. Liq. 2 (H225)

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

4. First Aid Measures

4.1. 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 30

minutes. Remove contact lenses after the first 5 minutes and continue washing. Seek immediate medical attention/advice. Suitable emergency eye wash facility

should be immediately available

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

15 minutes. Get medical attention.

Ingestion Rinse mouth with water many times. Get medical attention, if symptoms occur

4.2 Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes severe eye irritation which may damage tissue.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

Do NOT spray pool fires directly with water. A solid stream of water directed into hot burning liquid can cause splattering.

5.2 Specific hazards arising from the substance or mixture

Special exposure hazards in a fire

Decomposition in fire may produce harmful gases.

5.3 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

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. 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

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

7. Handling and storage

7.1. Precautions for safe handling

Handling Precautions

Ensure adequate ventilation. Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Information

Store in a well ventilated area.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable
Ethanol		TWA: 1000 ppm TWA: 1900 mg/m³	STEL: 1000 ppm

8.2 Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

8.3 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.

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

> 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.

Use gloves which are suitable for the chemicals present in this product as well as **Hand Protection**

other environmental factors in the workplace.

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 Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles,

Face-shield.

Other Precautions None known.

9. Physical and Chemical Properties

Remarks/ - Method

9.1. Information on basic physical and chemical properties

Physical State: Liquid Clear Light Amber to Dark Amber Color

Odor: Mild No information available Odor

Threshold:

Property Values

:Ha 5.5 - 7.5 (10% in 1:1 IPA:H2O)

Freezing Point / Range No data available **Melting Point / Range** No data available Pour Point / Range No data available **Boiling Point / Range** No data available

94 °C / 201.8 °F (SFCC) **Flash Point**

Flammability (solid, gas) No data available Upper flammability limit No data available Lower flammability limit No data available No data available **Evaporation rate Vapor Pressure** No data available **Vapor Density** No data available

0.9645 - 0.9895 (20 °C/68 °F) **Specific Gravity**

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

Decomposition TemperatureViscosity
No data available
No data available

Explosive PropertiesNo information available **Oxidizing Properties**No information available

9.2. Other information

VOC Content (%)No data availableLiquid Density8.04 - 8.25 lbs/galBulk Density964 - 990 kg/m³

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Will Not Occur

10.4. Conditions to avoid

None anticipated

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Oxides of carbon and nitrogen, AVOID extreme heat.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Ingestion. Skin contact. Eye contact. Inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation May cause mild respiratory irritation. **Eye Contact** Causes serious eye damage.

Causes serious eye dam

Skin Contact Causes skin irritation.

Ingestion May cause abdominal pain, vomiting, nausea, and diarrhea.

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

are chronic health hazards.

11.3 Toxicity data

Toxicology data for the components

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Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Didecyldimethylammoniu	7173-51-5	329 mg/kg-bw (rat)	2930 mg/kg-bw (rabbit)	No data available	
m chloride					
Ethanol	64-17-5	7060 mg/kg (Rat) 10,470 mg/kg (Rat)	> 15,800 mg/kg (Rabbit) 17,100 mg/kg (Rabbit)	124.7 mg/L (Rat) 4h	

Substances	CAS Number	Skin corrosion/irritation	
Didecyldimethylammonium	7173-51-5	Skin, rabbit: Causes severe skin irritation with tissue destruction. Causes burns	

chloride				
Ethanol	64-17-5	Not irritating to skin in rabbits.		
Substances	CAS Number	Serious eye damage/irritation		
Didecyldimethylammonium chloride	7173-51-5	Corrosive to eyes Causes severe irritation and or burns Eye, rabbit:		
Ethanol	64-17-5	Causes moderate eye irritation (Rabbit)		
	10.1.1.0	,		
Substances	CAS Number	Skin Sensitization		
Didecyldimethylammonium chloride	7173-51-5	Did not cause sensitization on laboratory animals (guinea pig)		
Ethanol	64-17-5	Did not cause sensitization on laboratory animals		
Etilatioi	JO-1 1 7 O	Did not oddoc scholization on laboratory animals		
Substances	CAS Number	Respiratory Sensitization		
Didecyldimethylammonium	7173-51-5	No information available		
chloride	1170010	1 to mornation available		
Ethanol	64-17-5	Did not cause sensitization on laboratory animals		
	•	,		
Substances	CAS Number	Mutagenic Effects		
Didecyldimethylammonium chloride	7173-51-5	In vivo tests did not show mutagenic effects. In vitro tests did not show mutagenic effects.		
Ethanol	64-17-5	Not regarded as mutagenic.		
Substances	CAS Number	Carcinogenic Effects		
Didecyldimethylammonium chloride	7173-51-5	Did not show carcinogenic effects in animal experiments		
Ethanol	64-17-5	Did not show carcinogenic effects in animal experiments		
Substances	CAS Number	Reproductive toxicity		
Didecyldimethylammonium chloride	7173-51-5	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.		
Ethanol	64-17-5	Animal testing did not show any effects on fertility.		
Substances	CAS Number	STOT - single exposure		
Didecyldimethylammonium chloride	7173-51-5	May cause respiratory irritation.		
Ethanol	64-17-5	No significant toxicity observed in animal studies at concentration requiring classification.		
Substances	CAS Number	STOT - repeated exposure		
Didecyldimethylammonium chloride	7173-51-5	No data of sufficient quality are available. Not applicable due to corrosivity of the substance.		
Ethanol	64-17-5	No significant toxicity observed in animal studies at concentration requiring classification.		
Substances	CAS Number	Aspiration hazard		
Didecyldimethylammonium chloride	7173-51-5	Not applicable		
Ethanol	64-17-5	Not applicable		

12. Ecological Information

12.1. Toxicity Ecotoxicity effects

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
				Microorganisms	
Didecyldimethylammo	7173-51-5	ErC50 (96 h) =0.053	LC50 (96 h) =0.97 mg/L	EC50 (3h) 17.95 mg/L	EC50 (48 h) =0.057 mg/L
nium chloride		mg/L	(Danio rerio)	(Activated sludge)	(Daphnia magna)
l'ilairi dilidilad		(Pseudokirchnerella	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	NOEC (21 d) =0.021
		subcapitata)			mg/L (Daphnia magna)
Ethanol	64-17-5	No information available	LC50 > 100 mg/L	No information available	LC50 9268 - 14,221 mg/L
			(Pimephales promelas)		(Daphnia magna)

Γ			LC50 5012 mg/L
			(Ceridaphnia dubia)
			NOEC 9.6 mg/L (Daphnia
			magna)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Didecyldimethylammonium chloride	7173-51-5	Readily biodegradable (69% @ 28d)
Ethanol	64-17-5	No information available

12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Didecyldimethylammonium chloride	7173-51-5	-0.41
		BCF = 2.1
Ethanol	64-17-5	-0.32

12.4. Mobility in soil

Substances	CAS Number	Mobility
Didecyldimethylammonium chloride	7173-51-5	KOC = >667
Ethanol	64-17-5	No information available

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

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

Contaminated Packaging Follow all applicable national or local regulations.

14. Transport Information

US DOT

UN Number UN3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Quaternary

Ammonium Chloride)

Transport Hazard Class(es): 9
Packing Group: ||||

Environmental Hazards: Marine Pollutant NAERG: NAERG 171

Not Restricted when shipped by land, rail or air in containers less than 119 gallons as authorized by 49

CFR 171.4(c).

US DOT Bulk

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Quaternary Ammonium Chloride), 9, PG III, Marine Pollutant

Canadian TDG

UN Number UN3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Quaternary

Ammonium Chloride)

Transport Hazard Class(es): 9
Packing Group: |||

Environmental Hazards: Marine Pollutant

IMDG/IMO

UN Number UN3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Quaternary

Ammonium Chloride)

Transport Hazard Class(es): 9
Packing Group:

Environmental Hazards: Marine Pollutant EMS: EmS F-A, S-F

IATA/ICAO

UN Number UN3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Quaternary

Ammonium Chloride)

Transport Hazard Class(es): 9
Packing Group: ||||

Environmental Hazards: Marine Pollutant

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

US Regulations

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

TSCA Significant New Use Rules - S5A2

Substances			TSCA Section 5(E) Consent Orders
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable
Ethanol	64-17-5	Not applicable	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous	
		Substances	
Didecyldimethylammonium chloride	7173-51-5	Not applicable	
Ethanol	64-17-5	Not applicable	

EPA SARA (311,312) Hazard Class

Skin Corrosion or Irritation

Serious eye damage or eye irritation

EPA SARA (313) Chemicals:

Substances	CAS Number	Toxic Release Inventory (TRI) - Toxic Release Inventory (TR	
		Group I	Group II
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable
Ethanol	64-17-5	Not applicable	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Didecyldimethylammonium chloride	7173-51-5	Not applicable
Ethanol	64-17-5	Not applicable

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard

information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal Word: DANGER

Hazard Statements Causes irreversible eye damage and skin burns.

Harmful if swallowed or absorbed through skin.

May be irritating to nose and throat.

This pesticide is toxic to fish and aquatic organisms.

California Proposition 65

Substances	CAS Number	California Proposition 65
Didecyldimethylammonium chloride	7173-51-5	Not applicable
Ethanol	64-17-5	developmental toxicity
		carcinogen carcinogen

U.S. State Right-to-Know Regulations

Substances	CAS Number	MA Right-to-Know Law	NJ Right-to-Know Law	PA Right-to-Know Law
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable
Ethanol	64-17-5	Teratogen	Present	Present

Canadian Regulations

Canadian Domestic Substances All components listed on inventory or are exempt. List (DSL)

16. Other information

Preparation Information

Prepared By Chemical Stewardship

e-mail: fdunexchem@halliburton.com

Revision Date: 11-Mar-2022

Reason for Revision SDS sections updated:

14

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.

NFPA Ratings: Health 2, Flammability 1, Reactivity 0

HMIS Ratings: Health 2, Flammability 1, Physical Hazard 0, PPE: X

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

bw – body weight

CAS - Chemical Abstracts Service

d - dav

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

h - hour

LC50 - Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

mg/m³ - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm - parts per million

STEL - Short Term Exposure Limit

TWA - Time-Weighted Average

UN - United Nations

w/w - weight/weight

Key literature references and sources for data

www.ChemADVISOR.com/

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

End of Safety Data Sheet

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