

SAFETY DATA SHEET

Product Trade Name: MC MX 6-4570B

Revision Date: 11-Jun-2021 Revision Number: 1

1. Identification

1.1. Product Identifier

Product Trade Name: MC MX 6-4570B

Synonyms None
Chemical Family: Blend
Internal ID Code MC006429

1.2 Recommended use and restrictions on useApplication:Corrosion InhibitorUses advised againstConsumer use

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier Multi-Chem Group LLC

A Halliburtan Francy Comisses Inc.

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

Acute Oral Toxicity	Category 4 - H302
Skin Corrosion / Irritation	Category 2 - H315
Serious Eye Damage/Irritation	Category 2 - H319
Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370
Acute Aquatic Toxicity	Category 2 - H401
Chronic Aquatic Toxicity	Category 3 - H412
Flammable liquids.	Category 4 - H227

2.2. Label Elements

Hazard Pictograms



Signal Word: Danger

Hazard Statements H227 - Combustible liquid

H302 - Harmful if swallowed H315 - Causes skin irritation

H319 - Causes serious eye irritation H370 - Causes damage to organs

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

Response

Prevention P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

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

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

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell P330 - Rinse mouth

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

P332 + P313 - If skin irritation occurs: Get medical advice/attention
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

P337 + P313 - If eye irritation persists: Get medical advice/attention P307 + P311 - IF exposed: Call a POISON CENTER or doctor/physician

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam

P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Hazards not otherwise classified

None known

Storage

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Ethylene glycol	107-21-1	10 - 30%	Acute Tox. 4 (H302)
			STOT SE 1 (H370)
Methanol	67-56-1	5 - 10%	Acute Tox. 3 (H301)
			Acute Tox. 3 (H311)

			Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)
Modified Tall Oil	Proprietary	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400)
Ethoxylated nonylphenol	Proprietary	1 - 5%	Skin Irrit. 2 (H315) Eye Corr. 1 (H318) STOT SE 2 (H371) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Phosphonic Acid Salt	Proprietary	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)
Quaternary ammonium compounds	Proprietary	1 - 5%	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Corr. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Phosphonic Acid Salt	Proprietary	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335)

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 Immediately flush eyes with large amounts of water for at least 15 minutes. Get

immediate medical attention.

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

15 minutes. Get medical attention.

Ingestion Following ingestion, onset of symptoms may be delayed by 12 to 24 hours.

Admission to hospital should be the first priority even if symptoms are absent. Do

NOT induce vomiting. Rinse mouth. Never give anything by mouth to an

unconscious person. Obtain immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed

Causes eye irritation. Causes skin irritation. Harmful if swallowed. May cause damage to internal organs.

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

Notes to Physician

Gastric lavage or emesis should be performed as soon as possible to minimize absorption, and is recommended within 4 hours of ingestion. Ethanol may be given intravenously to prevent build-up of toxic effects of methanol metabolites. Visual disturbances and metabolic acidosis may occur and dialysis, preferably hemodialysis may be employed to treat these complications.

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

Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Use appropriate protective equipment. Remove sources of ignition. All equipment used when handling the product must be grounded.

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

Remove ignition sources and work with non-sparking tools. 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

Avoid contact with eyes, skin, or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Use appropriate protective equipment. Remove sources of ignition. Ground and bond containers when transferring from one container to another.

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 cool well ventilated area. Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Ethylene glycol	107-21-1	Not applicable	TWA: 25 ppm
			STEL: 50 ppm
			STEL: 10 mg/m ³
Methanol	67-56-1	TWA: 200 ppm	TWA: 200 ppm
		TWA: 260 mg/m ³	STEL: 250 ppm
Modified Tall Oil	Proprietary	Not applicable	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable
Quaternary ammonium	Proprietary	Not applicable	Not applicable

compounds			
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable

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.

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. Positive pressure self-contained breathing apparatus.

Hand Protection Impervious gloves 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 None known.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color Amber

Odor: Alcohol Odor No information available

Threshold:

Property Values

Remarks/ - Method

pH: 5.22 - 6.22 (10% in 3:1/IPA:H2O)

Freezing Point / Range

Melting Point / Range

Pour Point / Range

Point / Range

No data available

-20.6 °C / -5 °F

Boiling Point / Range

No data available

Flash Point 62.7 °C / 144.9 °F (PMCC)

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

Specific Gravity 1.014 - 1.039 (15.6 °C/60 °F)

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

9.2. Other information

VOC Content (%) No data available

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

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides. Oxides of nitrogen. Oxides of phosphorus.

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 respiratory irritation. May cause central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Ingestion Harmful if swallowed. May cause headache, dizziness, nausea, vomiting,

gastrointestinal irritation and central nervous system depression. Ingestion of this

product may cause blindness due to the presence of methanol.

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

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol	107-21-1	1400 mg/kg bw (Human)	9530 mg/kg (Rabbit)	> 2.5 mg/L (Rat, mist, 6h) (saturated concentration)
Methanol	67-56-1	300 mg/kg-bw (human) < 790 to 13,000 mg/kg (rat)	1000 mg/kg-bw (human) 17,100 mg/kg (rabbit)	10 mg/L (human, vapor, 4h)
Modified Tall Oil	Proprietary	No data available	No data available	No data available
Ethoxylated nonylphenol	Proprietary	2000 - 5000 mg/kg (Rat) (Similar substance)	> 2000 mg/kg (Rabbit) (similar substance)	No data available
Phosphonic Acid Salt	Proprietary	No data available	No data available	No data available
Quaternary ammonium compounds	Proprietary	329 mg/kg-bw (rat) (similar substance)	2930 mg/kg-bw (rabbit) (similar substance)	>45 mg/L (rat, 4 h, aerosol) (similar substance)
Phosphonic Acid Salt	Proprietary	No data available	No data available	No data available

Substances	CAS Number Skin corrosion/irritation

Ethylene glycol	107-21-1	Non-irritating to the skin (Rabbit)
Methanol	67-56-1	Non-irritating to the skin (Rabbit)
Modified Tall Oil		May cause moderate skin irritation.
Ethoxylated nonylphenol		Causes moderate skin irritation. (Rabbit)
Phosphonic Acid Salt		May cause moderate skin irritation.
Quaternary ammonium		Skin, rabbit: Causes severe skin irritation with tissue destruction. (similar substances)
compounds		
Phosphonic Acid Salt		May cause irritation.

Substances	CAS Number	Serious eye damage/irritation
Ethylene glycol	107-21-1	Non-irritating to the eye (Rabbit)
Methanol	67-56-1	Non-irritating to the eye (Rabbit)
Modified Tall Oil		May cause moderate eye irritation.
Ethoxylated nonylphenol		Causes severe eye irritation which may damage tissue. (Rabbit)
Phosphonic Acid Salt		May cause moderate eye irritation.
Quaternary ammonium compounds		Causes severe irritation and or burns (similar substances)
Phosphonic Acid Salt		May cause eye irritation

Substances	CAS Number	Skin Sensitization
Ethylene glycol		Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties
Methanol	67-56-1	Did not cause sensitization on laboratory animals (guinea pig)
Modified Tall Oil		No information available
Ethoxylated nonylphenol		Patch test on human volunteers did not demonstrate sensitization properties
Phosphonic Acid Salt		No information available
Quaternary ammonium compounds		Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Phosphonic Acid Salt		No data of sufficient quality are available.

Substances	CAS Number	Respiratory Sensitization
Ethylene glycol	107-21-1	No information available
Methanol	67-56-1	No information available
Modified Tall Oil		No information available
Ethoxylated nonylphenol		No information available
Phosphonic Acid Salt		No information available
Quaternary ammonium compounds		No information available
Phosphonic Acid Salt		No data of sufficient quality are available.

Substances	CAS Number	Mutagenic Effects
Ethylene glycol	107-21-1	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Methanol	67-56-1	The weight of evidence from available in vitro and in vivo studies indicates that this substance is not expected to be mutagenic.
Modified Tall Oil		No information available
Ethoxylated nonylphenol		In vitro tests did not show mutagenic effects (similar substances)
Phosphonic Acid Salt		No information available
Quaternary ammonium compounds		In vitro tests did not show mutagenic effects (similar substances) In vivo tests did not show mutagenic effects.
Phosphonic Acid Salt		No information available

Substances	CAS Number	Carcinogenic Effects
Ethylene glycol	107-21-1	Did not show carcinogenic effects in animal experiments
Methanol	67-56-1	No data of sufficient quality are available.
Modified Tall Oil		No information available
Ethoxylated nonylphenol		Did not show carcinogenic or teratogenic effects in animal experiments (similar substances)
Phosphonic Acid Salt		No information available
Quaternary ammonium compounds		Did not show carcinogenic effects in animal experiments (similar substances)
Phosphonic Acid Salt		No information available

Substances	CAS Number	Reproductive toxicity
Ethylene glycol	107-21-1	Data are inconclusive or insufficient for classification. Fetotoxic and teratogenic effects observed in

		experimental animals at concentrations that did not produce maternal toxicity.		
Methanol	67-56-1	Based on available data, the classification criteria are not met. Experiments have shown reproductive toxicity effects on laboratory animals		
Modified Tall Oil		No information available		
Ethoxylated nonylphenol		Not a confirmed teratogen or embryotoxin. (similar substances)		
Phosphonic Acid Salt		No information available		
Quaternary ammonium compounds		Did not show teratogenic effects in animal experiments. Animal testing did not show any effects on fertility. (similar substances)		
Phosphonic Acid Salt		No data of sufficient quality are available.		

Substances	CAS Number	STOT - single exposure
Ethylene glycol	107-21-1	May cause disorder and damage to the Kidney; Central Nervous System (CNS)
Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)
Modified Tall Oil		May cause respiratory irritation.
Ethoxylated nonylphenol		May cause disorder and damage to the Central Nervous System (CNS)
Phosphonic Acid Salt		No information available
Quaternary ammonium		May cause respiratory irritation. (similar substances)
compounds		
Phosphonic Acid Salt		May cause respiratory irritation.

Substances	CAS Number	STOT - repeated exposure
Ethylene glycol	107-21-1	Causes damage to organs through prolonged or repeated exposure: Kidney
Methanol	67-56-1	No data of sufficient quality are available.
Modified Tall Oil		No information available
Ethoxylated nonylphenol		No significant toxicity observed in animal studies at concentration requiring classification.
Phosphonic Acid Salt		No information available
Quaternary ammonium		No significant toxicity observed in animal studies at concentration requiring classification. (similar
compounds		substances)
Phosphonic Acid Salt		No information available

Substances	CAS Number	Aspiration hazard
Ethylene glycol	107-21-1	No information available
Methanol	67-56-1	Not applicable
Modified Tall Oil		Not applicable
Ethoxylated nonylphenol		Not applicable
Phosphonic Acid Salt		No information available
Quaternary ammonium compounds		Not applicable
Phosphonic Acid Salt		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	-
Ethylene glycol	107-21-1	EC50 (72h) 6500 - 13000 mg/L (Selenastrum capricornutum)	LC50 (96h) 72860 mg/L (Pimephales promelas) NOEC (7d) 15380 mg/L	No information available	EC50(48 hr)>100 mg/L (Daphnia magna) NOEC (7d) 8590
		, ,	(Pimephales promelas)		mg/L(Ceriodaphnia dubia)
Methanol	67-56-1	EC50 (96 h) =22000 mg/L (Pseudokirchnerella subcapitata) NOEC (8 d) =8000 mg/L (Scenedesmus quadricauda)	LC50(96 h)=15400 mg/L (Lepomis macrochirus) EC50 (200h)=14536 mg/L (Oryzias latipes)	No information available	NOEC(21 d)=208 mg/L (Daphnia magna) EC50 (48h)=22200 mg/L (Daphnia obtuse)
Modified Tall Oil	Proprietary	No information available	No information available	No information available	No information available
Ethoxylated nonylphenol	Proprietary	EC50 (72h) > 3 mg/L (Pseudokirchnerella subcapitata) (similar	LC50 (96h) 0.323 mg/L (Pimephales promelas) (similar substance)	EC50 (3h) 104 mg/L (Activated sludge) (similar substance)	LC50 (48h) 0.148 mg/L (Daphnia magna) (similar substance)

		substance)			NOEC (21d) 0.1 mg/L (Daphnia magna) (similar substance)
Phosphonic Acid Salt	Proprietary	No information available	No information available	No information available	No information available
Quaternary ammonium compounds	Proprietary	ErC50 (96 h) 0.053 mg/L (Pseudokirchnerella subcapitata)	LC50 (96 h) 0.97 mg/L (Danio rerio) NOEC (33 d) 0.23 mg/L (Pimephales promelas)	EC50 (3 h) 17.95 mg/L (Activated sludge)	EC50 (48 h) 0.057 mg/L (Daphnia magna) NOEC (21 d) 0.021 mg/L (Daphnia magna)
Phosphonic Acid Salt	Proprietary	No information available	No information available	No information available	No information available

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Ethylene glycol	107-21-1	Readily biodegradable (100% @ <4d)
Methanol	67-56-1	Readily biodegradable (95% @ 20d)
Modified Tall Oil	Proprietary	Readily biodegradable
Ethoxylated nonylphenol	Proprietary	Readily biodegradable (81% @ 28d) (similar substances)
Phosphonic Acid Salt	Proprietary	No information available
Quaternary ammonium compounds	Proprietary	No information available
Phosphonic Acid Salt	Proprietary	No information available

12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Ethylene glycol	107-21-1	LogKow-1.36
Methanol	67-56-1	Not Bioaccumulative; BCF=1
Modified Tall Oil	Proprietary	No information available
Ethoxylated nonylphenol	Proprietary	3.59-4.24
Phosphonic Acid Salt	Proprietary	No information available
Quaternary ammonium compounds	Proprietary	No information available
Phosphonic Acid Salt	Proprietary	No information available

12.4. Mobility in soil

Substances	CAS Number	Mobility
Ethylene glycol	107-21-1	No information available
Methanol	67-56-1	No information available
Modified Tall Oil	Proprietary	No information available
Ethoxylated nonylphenol	Proprietary	No information available
Phosphonic Acid Salt	Proprietary	No information available
Quaternary ammonium compounds	Proprietary	No information available
Phosphonic Acid Salt	Proprietary	No information available

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

Disposal methodsContaminated Packaging
Disposal should be made in accordance with federal, state, and local regulations.
Follow all applicable national or local regulations.

14. Transport Information

US DOT

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

Environmental Hazards: Not applicable

US DOT Bulk

NA1993, Combustible Liquid, N.O.S. (Contains Methanol), Combustible Liquid, III

Canadian TDG

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

IMDG/IMO

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

IATA/ICAO

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

US Regulations

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

TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2	TSCA Section 5(E) Consent Orders
Ethylene glycol	107-21-1	Not applicable	Not applicable
Methanol	67-56-1	Not applicable	Not applicable
Modified Tall Oil	Proprietary	Not applicable	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous
		Substances
Ethylene glycol	107-21-1	Not applicable
Methanol	67-56-1	Not applicable
Modified Tall Oil	Proprietary	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable

EPA SARA (311,312) Hazard Class

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin Corrosion or Irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

EPA SARA (313) Chemicals:

Substances	CAS Number	Toxic Release Inventory (TRI) -	Toxic Release Inventory (TRI) -
		Group I	Group II
Ethylene glycol	107-21-1	1.0%	Not applicable
Methanol	67-56-1	1.0%	Not applicable
Modified Tall Oil	Proprietary	Not applicable	Not applicable
Ethoxylated nonylphenol	Proprietary	1.0%	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

El // CENCE/ (Capellana Nopollan	no opini quantity	
Substances	CAS Number	CERCLA RQ
Ethylene glycol	107-21-1	5000 lb
		2270 kg
Methanol	67-56-1	5000 lb
		2270 kg
Modified Tall Oil	Proprietary	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	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.

California Proposition 65

Substances	CAS Number	California Proposition 65
Ethylene glycol	107-21-1	developmental toxicity
Methanol	67-56-1	developmental toxicity
Modified Tall Oil	Proprietary	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable

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
Ethylene glycol	107-21-1	Present	Present	Environmental hazard
Methanol	67-56-1	Present	Present	Environmental hazard
Modified Tall Oil	Proprietary	Not applicable	Not applicable	Not applicable
Ethoxylated nonylphenol	Proprietary	Not applicable	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable	Not applicable
Quaternary ammonium compounds	Proprietary	Not applicable	Not applicable	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable	Not applicable

NFPA Ratings: Health 1, Flammability 2, Reactivity 0

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-Jun-2021

Reason for Revision Initial Release

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

bw - body weight

CAS - Chemical Abstracts Service

d - day

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

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End of Safety Data Sheet
