

# SAFETY DATA SHEET

Product Trade Name: MC MX 6-3558

Revision Date: 29-Sep-2021 Revision Number: 3

# 1. Identification

1.1. Product Identifier

Product Trade Name: MC MX 6-3558

Synonyms None
Chemical Family: Blend
Internal ID Code MC004767

1.2 Recommended use and restrictions on use
Application: Corrosion Inhibitor

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

Acute inhalation toxicity - vapor	Category 4 - H332
Skin Corrosion / Irritation	Category 2 - H315
Serious Eye Damage/Irritation	Category 2 - H319
Skin Sensitization	Category 1 - H317
Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370
Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - H372
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

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H370 - Causes damage to organs

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary Statements**

**Prevention** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe 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

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

P272 - Contaminated work clothing should not be allowed out of the workplace

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.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash before reuse

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

for breathing.

P312 - Call a POISON CENTER and 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 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

# 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Methanol	67-56-1	1 - 5%	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)
Ethylene glycol	107-21-1	1 - 5%	Acute Tox. 4 (H302)
			STOT SE 1 (H370)
Phosphonic Acid Salt	Proprietary	1 - 5%	Skin Irrit. 2 (H315)
			Eye Irrit. 2A (H319)
Morpholine process residues	Proprietary	1 - 5%	Skin Irrit. 2 (H315)
			Eye Corr. 1 (H318)
			Skin Sens. 1 (H317)
Quaternary ammonium compound	Proprietary	1 - 5%	Acute Tox. 4 (H302)
	·		Acute Tox. 3 (H311)
			Skin Corr. 1B (H314)
			Eye Corr. 1 (H318)
			STOT SE 3 (H335)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
Organic Alcohol	Proprietary	0.1 - 1%	Acute Tox. 3 (H301)
			Acute Tox. 2 (H310)
			Acute Tox. 2 (H330)
			Skin Irrit. 2 (H315)
			Eye Corr. 1 (H318)
			Skin Sens. 1 (H317)
			STOT SE 3 (H335)
			STOT RE 2 (H373)
			Aquatic Acute 1 (H400)
			Aquatic Chronic 1 (H410)
			Flam. Liq. 4 (H227)

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

#### 4. First Aid Measures

#### 4.1. Description of first aid measures

**Inhalation** Remove person to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, get immediate medical attention.

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.

## 4.2 Most important symptoms/effects, acute and delayed

Causes eye irritation. Causes skin irritation. May cause allergic skin reaction. Harmful if inhaled. 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.

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# 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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eves 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**

Do not breathe dust/fume/gas/mist/vapors/spray. 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. Store away from oxidizers. 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
Methanol	67-56-1	TWA: 200 ppm	TWA: 200 ppm
		TWA: 260 mg/m <sup>3</sup>	STEL: 250 ppm
Modified Tall Oil	Proprietary	Not applicable	Not applicable
Ethylene glycol	107-21-1	Not applicable	TWA: 25 ppm
			STEL: 50 ppm
			STEL: 10 mg/m <sup>3</sup>

Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable
Morpholine process residues	Proprietary	Not applicable	Not applicable
Quaternary ammonium	Proprietary	Not applicable	Not applicable
compound			
Organic Alcohol	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

if methanol is released.

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** Light Amber to Dark Amber , Clear to

Slightly Hazy

Odor: Mild Odor No information available

Threshold:

Property Values

Remarks/ - Method

pH: 6.07 - 7.07 (10% in 1:1 IPA:H2O)

Freezing Point / Range -9.4 °C / 15 °F Melting Point / Range No data available Pour Point / Range No data available Boiling Point / Range No data available

Flash Point > 93.3 °C / > 200 °F (SFCC)

Flammability (solid, gas)

Upper flammability limit

Lower flammability limit

Evaporation rate

Vapor Pressure

Vapor Density

No data available

**Specific Gravity** 0.9982 - 1.0232 (20 °C/68 °F)

Water SolubilitySoluble in waterSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data available

Viscosity No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

9.2. Other information

VOC Content (%)

Liquid Density

No data available
8.32 - 8.52 lbs/gal

# 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.

#### 10.6. Hazardous decomposition products

Carbon oxides. Oxides of sulfur. Oxides of phosphorus. Oxides of nitrogen. Ammonia. Hydrogen chloride.

# 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 Harmful if inhaled. 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. May cause an allergic skin reaction.

**Ingestion** May cause abdominal pain, vomiting, nausea, and diarrhea. 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. May cause kidney damage.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure can cause delayed kidney damage.

#### 11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
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
Ethylene glycol	107-21-1	1400 mg/kg bw (Human)	9530 mg/kg (Rabbit)	> 2.5 mg/L (Rat, mist, 6h) (saturated concentration)

Phosphonic Acid Salt	Proprietary	No data available	No data available	No data available
Morpholine process residues	Proprietary	3816 mg/kg-bw (rat)	> 2000 mg/kg (Rat)	No toxicity at saturation (rat, 8 h vapour)
Quaternary ammonium compound	Proprietary	304.5 mg/kg (rat) 426 mg/kg (rat)	930 mg/kg (rat) 919 mg/kg (mouse)	No data available
Organic Alcohol	Proprietary	98 - 336 mg/kg (Rat)	112-251 mg/kg (Rabbit)	2 mg/L (Rat) 4h

Substances	CAS Number	Skin corrosion/irritation
Methanol	67-56-1	Non-irritating to the skin (Rabbit)
Modified Tall Oil		May cause moderate skin irritation.
Ethylene glycol	107-21-1	Non-irritating to the skin (Rabbit)
Phosphonic Acid Salt		May cause moderate skin irritation.
Morpholine process residues		Causes moderate skin irritation. (Rabbit) Skin, rabbit:
Quaternary ammonium		Causes severe irritation and or burns
compound		
Organic Alcohol		Skin, rabbit: Causes moderate skin irritation.

Substances	CAS Number	Serious eye damage/irritation
Methanol	67-56-1	Non-irritating to the eye (Rabbit)
Modified Tall Oil		May cause moderate eye irritation.
Ethylene glycol	107-21-1	Non-irritating to the eye (Rabbit)
Phosphonic Acid Salt		May cause moderate eye irritation.
Morpholine process residues		Causes eye burns Causes severe eye irritation. Will damage tissue.
Quaternary ammonium		Causes severe eye irritation which may damage tissue.
compound		
Organic Alcohol		Eye, rabbit: Causes severe eye irritation. Will damage tissue.

Substances	CAS Number	Skin Sensitization
Methanol	67-56-1	Did not cause sensitization on laboratory animals (guinea pig)
Modified Tall Oil		No information available
Ethylene glycol		Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties
Phosphonic Acid Salt		No information available
Morpholine process residues		May cause sensitization by skin contact (mouse)
Quaternary ammonium compound		Did not cause sensitization on laboratory animals (guinea pig)
Organic Alcohol		Skin sensitizer in guinea pig.

Substances	CAS Number	Respiratory Sensitization
Methanol	67-56-1	No information available
Modified Tall Oil		No information available
Ethylene glycol	107-21-1	No information available
Phosphonic Acid Salt		No information available
Morpholine process residues		No information available
Quaternary ammonium		No information available
compound		
Organic Alcohol		No information available

Substances	CAS Number	Mutagenic Effects
Methanol		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
Ethylene glycol	107-21-1	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Phosphonic Acid Salt		No information available
Morpholine process residues		In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Quaternary ammonium compound		In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Organic Alcohol		The weight of evidence from available in vitro and in vivo studies indicates that this substance is not expected to be mutagenic.

Substances	CAS Number	Carcinogenic Effects
Methanol	67-56-1	No data of sufficient quality are available.
Modified Tall Oil		No information available

Ethylene glycol	107-21-1	Did not show carcinogenic effects in animal experiments
Phosphonic Acid Salt		No information available
Morpholine process residues		No information available
Quaternary ammonium		Did not show carcinogenic effects in animal experiments
compound		
Organic Alcohol		No information available

Substances	CAS Number	Reproductive 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	
Ethylene glycol		Data are inconclusive or insufficient for classification. Fetotoxic and teratogenic effects observed in experimental animals at concentrations that did not produce maternal toxicity.	
Phosphonic Acid Salt		No information available	
Morpholine process residues		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.	
Quaternary ammonium compound		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.	
Organic Alcohol		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.	

Substances	CAS Number	STOT - single exposure	
Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)	
Modified Tall Oil		May cause respiratory irritation.	
Ethylene glycol	107-21-1	May cause disorder and damage to the Kidney; Central Nervous System (CNS)	
Phosphonic Acid Salt		No information available	
Morpholine process residues		No significant toxicity observed in animal studies at concentration requiring classification.	
Quaternary ammonium		No information available May cause respiratory irritation.	
compound			
Organic Alcohol		May cause respiratory irritation.	

Substances	CAS Number	STOT - repeated exposure		
Methanol	67-56-1	Causes damage to organs through prolonged or repeated exposure: Central Nervous System (CNS)		
Modified Tall Oil		No information available		
Ethylene glycol	107-21-1	Causes damage to organs through prolonged or repeated exposure: Kidney		
Phosphonic Acid Salt		No information available		
Morpholine process residues		No significant toxicity observed in animal studies at concentration requiring classification.		
Quaternary ammonium		No significant toxicity observed in animal studies at concentration requiring classification.		
compound				
Organic Alcohol		Causes damage to organs through prolonged or repeated exposure: (Liver) Heart		

Substances	CAS Number	Aspiration hazard
Methanol	67-56-1	Not applicable
Modified Tall Oil		Not applicable
Ethylene glycol	107-21-1	No information available
Phosphonic Acid Salt		No information available
Morpholine process residues		Not applicable
Quaternary ammonium		Not applicable
compound		
Organic Alcohol		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	-
Methanol	67-56-1	EC50 (96 h) =22000 mg/L	LC50(96 h)=15400 mg/L	No information available	NOEC(21 d)=208 mg/L
		(Pseudokirchnerella	(Lepomis macrochirus)		(Daphnia magna)
		subcapitata)	EC50 (200h)=14536 mg/L		EC50 (48h)=22200 mg/L

		NOEC (8 d) =8000 mg/L (Scenedesmus quadricauda)	(Oryzias latipes)		(Daphnia obtuse)
Modified Tall Oil	Proprietary	No information available	No information available	No information available	No information available
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 (Pimephales promelas)	No information available	EC50(48 hr)>100 mg/L (Daphnia magna ) NOEC (7d) 8590 mg/L(Ceriodaphnia dubia
Phosphonic Acid Salt	Proprietary	No information available	No information available	No information available	No information available
Morpholine process residues	Proprietary	EC50 (72 h) =100 mg/L (Skeletonema costatum) EC50 (72 h) >120 mg/L (Desmodesmus subspicatus) NOEC (72 h) >120 mg/L (Desmodesmus subspicatus)	LC50 (96 h) >100 mg/L (Scophthalmus maximus) LC50 (96 h) =681.1 mg/L (Leuciscus idus)	EC50 (3h) > 1000 mg/L (activated sludge)	LC50 (48 h) =287.2 mg/L (Acartia tonsa) EC50 (48 h) >120 mg/L (Daphnia Magna)
Quaternary ammonium compound	Proprietary	EC50(96 h)=0.03 mg/L (Pseudokirchneriella subcapitata)	LC50(96 h)=0.28 mg/L (Pimephales promelas)	No information available	EC50(48 h)=0.016 mg/L (Daphnia magna) NOEC(21 d)=0.00415 mg/L (Daphnia magna)
Organic Alcohol	Proprietary	EC50 (72h) 12 mg/L (Desmodesmus subspicatus) EC50 (72h) 19 mg/L (Desmodesmus subspicatus)	LC50 (96h) 37 mg/L (Leuciscus idus) LC50 (96h) 46 mg/L (Leuciscus idus) LC50 (96h) 46-100 mg/L (Leuciscus idus) LC50 (96h) 46-100 mg/L (Carassius carassis auratis)	No information available	EC50 (48h) 0.4 mg/L (Daphnia magna) NOEC (21d) 0.0632 mg/L (Daphnia magna)

# 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Methanol	67-56-1	Readily biodegradable (95% @ 20d)
Modified Tall Oil	Proprietary	Readily biodegradable
Ethylene glycol	107-21-1	Readily biodegradable (100% @ <4d)
Phosphonic Acid Salt	Proprietary	No information available
Morpholine process residues	Proprietary	(10.2% @ 28d)
Quaternary ammonium compound	Proprietary	(88.9% in 28 days (OECD 301B)% @ 28d)
Organic Alcohol	Proprietary	Not readily biodegradable (15-21% @ 28d)

# 12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Methanol	67-56-1	Not Bioaccumulative; BCF=1
Modified Tall Oil	Proprietary	No information available
Ethylene glycol	107-21-1	LogKow-1.36
Phosphonic Acid Salt	Proprietary	No information available
Morpholine process residues	Proprietary	Log Pow <1
Quaternary ammonium compound	Proprietary	0.04
Organic Alcohol	Proprietary	-0.056

# 12.4. Mobility in soil

Substances	CAS Number	Mobility	
Methanol	67-56-1	No information available	
Modified Tall Oil	Proprietary	No information available	
Ethylene glycol	107-21-1	No information available	
Phosphonic Acid Salt	Proprietary	No information available	
Morpholine process residues	Proprietary	No information available	
Quaternary ammonium compound	Proprietary	No information available	
Organic Alcohol	Proprietary	KOC = 1.325	

# 12.5 Other adverse effects

No information available

# 13. Disposal Considerations

#### 13.1. Waste treatment methods

**Disposal methods** Disposal 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
UN proper shipping name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable

#### 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
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
Not applicable
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

100/1 Olginilodik Now Goo Kaloo Go/LE					
Substances	CAS Number	TSCA Significant New Use	TSCA Section 5(E) Consent		
		Rules - S5A2	Orders		
Methanol	67-56-1	Not applicable	Not applicable		
Modified Tall Oil	Proprietary	Not applicable	Not applicable		
Ethylene glycol	107-21-1	Not applicable	Not applicable		
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable		
Morpholine process residues	Proprietary	76 FR 65579, Oct 21, 2011	Not applicable		

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Quaternary ammonium compound	Proprietary	Not applicable	Not applicable
Organic Alcohol	Proprietary	Not applicable	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous
		Substances
Methanol	67-56-1	Not applicable
Modified Tall Oil	Proprietary	Not applicable
Ethylene glycol	107-21-1	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable
Morpholine process residues	Proprietary	Not applicable
Quaternary ammonium compound	Proprietary	Not applicable
Organic Alcohol	Proprietary	Not applicable

# EPA SARA (311,312) Hazard Class

Acute toxicity (any route of exposure)

Skin Corrosion or Irritation

Respiratory or Skin Sensitization

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) - Group I	Toxic Release Inventory (TRI) - Group II
Methanol	67-56-1	1.0%	Not applicable
Modified Tall Oil	Proprietary	Not applicable	Not applicable
Ethylene glycol	107-21-1	1.0%	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable
Morpholine process residues	Proprietary	Not applicable	Not applicable
Quaternary ammonium compound	Proprietary	Not applicable	Not applicable
Organic Alcohol	Proprietary	Not applicable	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Methanol	67-56-1	5000 lb
		2270 kg
Modified Tall Oil	Proprietary	Not applicable
Ethylene glycol	107-21-1	5000 lb
		2270 kg
Phosphonic Acid Salt	Proprietary	Not applicable
Morpholine process residues	Proprietary	Not applicable
Quaternary ammonium compound	Proprietary	Not applicable
Organic Alcohol	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** 

<u> </u>			
Substances	CAS Number	California Proposition 65	
Methanol	67-56-1	developmental toxicity	
Modified Tall Oil	Proprietary	Not applicable	
Ethylene glycol	107-21-1	developmental toxicity	
Phosphonic Acid Salt	Proprietary	Not applicable	
Morpholine process residues	Proprietary	Not applicable	
Quaternary ammonium compound	Proprietary	Not applicable	
Organic Alcohol	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
Methanol	67-56-1	Present	Present	Environmental hazard
Modified Tall Oil	Proprietary	Not applicable	Not applicable	Not applicable
Ethylene glycol	107-21-1	Present	Present	Environmental hazard
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable	Not applicable

Morpholine process residues	Proprietary	Not applicable	Not applicable	Not applicable
Quaternary ammonium compound	Proprietary	Not applicable	Not applicable	Not applicable
Organic Alcohol	Proprietary	Present	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: 29-Sep-2021

Reason for Revision SDS sections updated:

#### 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 - 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**

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**