

SAFETY DATA SHEET

Product Trade Name: MC MX 3-4084

Revision Date: 19-Jun-2020 Revision Number: 3

1. Identification

1.1. Product Identifier

Product Trade Name: MC MX 3-4084

Synonyms None
Chemical Family: Blend
Internal ID Code MC003768

1.2 Recommended use and restrictions on use

Application: Paraffin/Asphaltene Solvent

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

Telephone: 1-281-871-6107

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

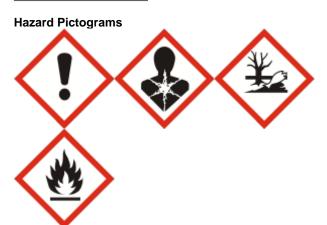
2. Hazards Identification

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

Aspiration Toxicity	Category 1 - H304
Skin Corrosion / Irritation	Category 2 - H315
Serious Eye Damage/Irritation	Category 2 - H319
Reproductive Toxicity	Category 1B - H360
Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370; Category 3 -
	H335+H336

Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - H372
Acute Aquatic Toxicity	Category 2 - H401
Chronic Aquatic Toxicity	Category 2 - H411
Flammable liquids.	Category 2 - H225

2.2. Label Elements



Signal Word: Danger

Hazard Statements H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eve irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H360 - May damage fertility or the unborn child

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

Response

P201 - Obtain special instructions before use Prevention

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

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

sources. No smoking.

P233 - Keep container tightly closed

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting/equipment

P242 - Use only non-sparking tools

P243 - Take action to prevent static discharges.

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

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P331 - Do NOT induce vomiting

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

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all

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contaminated clothing. Rinse skin with water [or shower].

P332 + P313 - If skin irritation 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.

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 P308 + P313 - IF exposed or concerned: Get medical advice/attention

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

P391 - Collect spillage

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Toluene	108-88-3	30 - 60%	Skin Irrit. 2 (H315)
			Eye Irrit. 2B (H320)
			Repr. 1B (H360)
			STOT SE 3 (H336)
			STOT RE 2 (H373)
			Asp. Tox. 1 (H304)
			Aquatic Acute 2 (H401)
			Aquatic Chronic 3 (H412)
			Flam. Liq. 2 (H225)
Hexane	110-54-3	30 - 60%	Skin Irrit. 2 (H315)
			Repr. 2 (H361)
			STOT SE 3 (H336)
			STOT RE 1 (H372)
			Asp. Tox. 1 (H304)
			Aquatic Acute 2 (H401)
			Aquatic Chronic 2 (H411)
			Flam. Liq. 2 (H225)
Alkylbenzenesulfonic acid	Proprietary	1 - 5%	Acute Tox. 4 (H302)
			Acute Tox. 4 (H312)
			Skin Corr. 1C (H314)
			Eye Corr. 1 (H318)
			STOT SE 3 (H335)
			Aquatic Acute 2 (H401)
			Aquatic Chronic 3 (H412)
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)

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 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

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. Causes skin irritation. Causes eye irritation. Potential reproductive hazard. May cause birth defects. May cause damage to internal organs. May cause respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause damage to organs through prolonged or repeated exposure.

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.

Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids

aspiration.

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. Remove sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. 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. Remove ignition sources and work with non-sparking tools.

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. Remove sources of ignition. Ground and bond containers when transferring from one container to another. 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 cool well ventilated area. Keep from heat, sparks, and open flames.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Toluene	108-88-3	TWA: 200 ppm	TWA: 20 ppm
Hexane	110-54-3	TWA: 500 ppm TWA: 1800 mg/m ³	TWA: 50 ppm
Alkylbenzenesulfonic acid	Proprietary	Not applicable	Not applicable
Methanol	67-56-1	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm STEL: 250 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.

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

other environmental factors in the workplace. Manufacturer's directions for use should be observed because of great diversity of types. Impervious gloves

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

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color Clear to Slightly Hazy, Colorless to Light

Amber

Odor: Aromatic hydrocarbon Odor No information available

Threshold:

<u>Property</u> <u>Values</u>

Remarks/ - Method

pH: 1.69-3.69 (10% in 1:1 IPA:H2O) **Freezing Point / Range** -40 °C / -40 °F

Freezing Point / Range -40 °C / -40 °F Melting Point / Range No data available Pour Point / Range No data available Boiling Point / Range No data available

Flash Point 12.8 °C / 55 °F (SFCC)

Flammability (solid, gas)
Upper flammability limit
No data available
No data available
No data available

Evaporation rate

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity 0.7578-0.7828 (20 °C/68 °F)

Water Solubility No data available

Solubility in other solvents Oil soluble

Partition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

VOC Content (%) No data available Liquid Density 6.31-6.53 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

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Carbon oxides. Oxides of sulfur.

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11. Toxicological Information

11.1 Information on likely routes of exposure

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

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation May cause central nervous system depression including headache, dizziness,

drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness. May cause respiratory irritation.

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Ingestion Ingestion of this product may cause blindness due to the presence of methanol.

May be fatal if swallowed and enters airways.

Chronic Effects/Carcinogenicity May cause birth defects. Contains known or suspected reproductive toxins.

Causes damage to organs through prolonged or repeated exposure.

11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluene	108-88-3	5580 mg/kg (rat)	5000 mg/kg-bw (rabbit)	No data available
Hexane	110-54-3	25,000 mg/kg (Rat) 16,000 mg/kg (Rat)	3000 mg/kg (Rabbit) >2000 mg/kg (Rabbit)	48000 ppm (Rat) 4h >17,600 mg/m³ (Rat) 24h
Alkylbenzenesulfonic acid	Proprietary	530 mg/kg (Rat) 775 mg/kg (Rat) 1350 mg/kg (Rat) 1470 mg/kg (Rat) (similar substance)	530 mg/kg (Rat) 2000 mg/kg (Rabbit)	No data available
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)

Substances	CAS Number	Skin corrosion/irritation
Toluene	108-88-3	Skin, rabbit: Causes moderate skin irritation.
Hexane	110-54-3	Prolonged skin contact may defat the skin and produce dermatitis
Alkylbenzenesulfonic acid		Skin, rabbit: Causes burns
Methanol	67-56-1	Non-irritating to the skin (Rabbit)

Substances	CAS Number	Serious eye damage/irritation
Toluene	108-88-3	Causes moderate eye irritation
Hexane	110-54-3	Non-irritating to rabbit's eye
Alkylbenzenesulfonic acid		Eye, rabbit: Causes eye burns
Methanol	67-56-1	Non-irritating to the eye (Rabbit)

Substances	CAS Number	Skin Sensitization
Toluene	108-88-3	Did not cause sensitization on laboratory animals (guinea pig)
Hexane	110-54-3	Did not cause sensitization on laboratory animals (mouse)
Alkylbenzenesulfonic acid		Did not cause sensitization on laboratory animals (guinea pig)
Methanol	67-56-1	Did not cause sensitization on laboratory animals (guinea pig)

Substances	CAS Number	Respiratory Sensitization
Toluene	108-88-3	No information available
Hexane	110-54-3	No information available
Alkylbenzenesulfonic acid		No information available
Methanol	67-56-1	No information available

Substances	CAS Number	Mutagenic Effects
Toluene		The weight of evidence from available in vitro and in vivo studies indicates that this substance is not expected to be mutagenic.
Hexane	110-54-3	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.

Alkylbenzenesulfonic acid		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.

Substances	CAS Number	Carcinogenic Effects
Toluene	108-88-3	No data of sufficient quality are available.
Hexane	110-54-3	Not regarded as carcinogenic.
Alkylbenzenesulfonic acid		No information available
Methanol	67-56-1	No data of sufficient quality are available.

Substances	CAS Number	Reproductive toxicity	
Toluene	I	Fetotoxic and teratogenic effects observed in experimental animals at concentrations that did not produce maternal toxicity.	
Hexane	110-54-3	periments have shown reproductive toxicity effects on laboratory animals	
Alkylbenzenesulfonic acid		data of sufficient quality are available.	
Methanol		Based on available data, the classification criteria are not met. Experiments have shown reproductive toxicity effects on laboratory animals	

Substances	CAS Number	STOT - single exposure
Toluene	108-88-3	May cause headache, dizziness, and other central nervous system effects. No information available
Hexane	110-54-3	May cause headache, dizziness, and other central nervous system effects.
Alkylbenzenesulfonic acid		May cause respiratory irritation.
Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)

Substances	CAS Number	STOT - repeated exposure
Toluene		Causes damage to organs through prolonged or repeated exposure if inhaled: Central Nervous System (CNS)
Hexane	110-54-3	Causes damage to organs through prolonged or repeated exposure: Central Nervous System (CNS)
Alkylbenzenesulfonic acid		No data of sufficient quality are available.
Methanol	67-56-1	No data of sufficient quality are available.

Substances	CAS Number	Aspiration hazard
Toluene		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Hexane		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Alkylbenzenesulfonic acid		Not applicable
Methanol	67-56-1	Not applicable

12. Ecological Information

12.1. Toxicity Ecotoxicity effects

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

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Toluene	108-88-3	EC50 (3h) 134 mg/L (Chlamydomonas angulosa) EC50 (72h) 12.5 mg/L (Selenastrum capricornutum)	LC50 (96h) 5.8 mg/L (Oncorhynchus mykiss) LC50 (96h) 5.5 mg/L (Oncorhynchus kisutch) NOEC (40d) 1.4 mg/L (Oncorhynchus kisutch)	IC50 (24h) 84 mg/L (Nitrosomonas sp.)	LC50 (48h) 3.78 mg/L (Ceriodaphnia dubia) EC50 (48h) 11.5 mg/L (Daphnia magna) NOEC (7d) 0.74 mg/L (Ceriodaphnia dubia) NOEC (21d) 1 mg/L (Daphnia magna)
Hexane	110-54-3	EC50 (10d) 2.66% v/v (Chlorella pyrenoidosa)	LC50 (96h) 2.5 mg/L (Pimephales promelas) LC50 (48h) >1 mg/L (Oryzias latipes)	No information available	EC50 (48h) 45 mmol/m³ (Daphnia magna)
Alkylbenzenesulfonic acid	Proprietary	EC50 (96h) 170 mg/L (Selenastrum capricornutum)	LC50 (96h) 3 mg/L (Oncorhynchus mykiss) NOEC (90d) 0.25 mg/L (Tilapia mossambica)	No information available	EC50 (48h) 2.9 mg/L (Daphnia magna) EC50 (24h) 5.9 mg/L (Daphnia magna)

			(similar substance)		
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	(Oryzias latipes)		(Daphnia obtuse)
		(Scenedesmus			,
		quadricauda)			

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Toluene	108-88-3	Readily biodegradable
Hexane	110-54-3	No information available
Alkylbenzenesulfonic acid	Proprietary	(94% @ 28d)
Methanol	67-56-1	Readily biodegradable (95% @ 20d)

12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Toluene	108-88-3	LogPow2.73
Hexane	110-54-3	4
Alkylbenzenesulfonic acid	Proprietary	Log Pow = 4.15
Methanol	67-56-1	Not Bioaccumulative; BCF=1

12.4. Mobility in soil

Substances	CAS Number	Mobility
Toluene	108-88-3	No information available
Hexane	110-54-3	KOC = <2
Alkylbenzenesulfonic acid	Proprietary	No information available
Methanol	67-56-1	No information available

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 Dispose of container according to national or local regulations.

14. Transport Information

US DOT

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Toluene, Hexanes)

Transport Hazard Class(es): 3 **Packing Group:** Ш

Environmental Hazards: Marine Pollutant NAERG 128 NAERG:

Canadian TDG

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Toluene, Hexanes)

Transport Hazard Class(es): 3 **Packing Group:**

Environmental Hazards: Marine Pollutant

IMDG/IMO

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Toluene, Hexanes)

Transport Hazard Class(es): 3 Packing Group:

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

IATA/ICAO

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Toluene, Hexanes)

Transport Hazard Class(es): 3
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	CAS Number	TSCA Significant New Use	TSCA Section 5(E) Consent
		Rules - S5A2	Orders
Toluene	108-88-3	Not applicable	Not applicable
Hexane	110-54-3	Not applicable	Not applicable
Alkylbenzenesulfonic acid	Proprietary	Not applicable	Not applicable
Methanol	67-56-1	Not applicable	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous
		Substances
Toluene	108-88-3	Not applicable
Hexane	110-54-3	Not applicable
Alkylbenzenesulfonic acid	Proprietary	Not applicable
Methanol	67-56-1	Not applicable

EPA SARA (311,312) Hazard Class

Flammable (gases, aerosols, liquids, or solids)

Aspiration Hazard

Skin Corrosion or Irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

Reproductive toxicity

EPA SARA (313) Chemicals

LI A OAKA (313) Olieliiloais				
Substances	CAS Number	Toxic Release Inventory	y (TRI) - Toxic Release Inventory (TRI) -	
		Group I	Group II	
Toluene	108-88-3	1.0%	>= 1.0 %	
Hexane	110-54-3	1.0%	>= 1.0 %	
Alkylbenzenesulfonic acid	Proprietary	Not applicable	Not applicable	
Methanol	67-56-1	1.0%	Not applicable	

EPA CERCLA/Superfund Reportable Spill Quantity

Substances		CERCLA RQ
Toluene	108-88-3	1000 lb

		454 kg 1 lb 0.454 kg
Hexane	110-54-3	5000 lb 2270 kg
Alkylbenzenesulfonic acid	Proprietary	Not applicable
Methanol	67-56-1	5000 lb
		2270 kg

EPA RCRA Hazardous Waste Classification

Ignitability D001

California Proposition 65

Substances	CAS Number	California Proposition 65
Toluene	108-88-3	developmental toxicity
Hexane	110-54-3	Not applicable
Alkylbenzenesulfonic acid	Proprietary	Not applicable
Methanol	67-56-1	developmental toxicity

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
Toluene	108-88-3	Present	Present	Environmental hazard
Hexane	110-54-3	Present	Present	Present
Alkylbenzenesulfonic acid	Proprietary	Not applicable	Not applicable	Not applicable
Methanol	67-56-1	Present	Present	Environmental hazard

NFPA Ratings: Health 2, Flammability 3, Reactivity 0

HMIS Ratings: Health 2*, Flammability 3, Physical Hazard 0 , PPE: X

Canadian Regulations

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

16. Other information

Preparation Information

Prepared By

Chemical Stewardship
Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

Revision Date: 19-Jun-2020

Reason for Revision Update to Format

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

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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