

# SAFETY DATA SHEET

**Product Trade Name:** MC C-6791

**Revision Date:** 13-Jan-2017

**Revision Number:** 8

## 1. Identification

### 1.1. Product Identifier

**Product Trade Name:** MC C-6791  
**Synonyms:** None  
**Chemical Family:** Blend  
**Internal ID Code:** MC000706

### 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  
 3000 N. Sam Houston Pkwy E., Houston, TX 77032  
 Phone: 1 281 871 4000

Halliburton Energy Services  
 645 - 7th Ave SW Suite 1800  
 Calgary, AB  
 T2P 4G8  
 Canada

**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  
 Global Incident Response Access Code: 334305  
 Contract Number: 14012

## 2. Hazard(s) 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
Reproductive Toxicity	Category 1B - H360
Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370
Acute Aquatic Toxicity	Category 2 - H401
Chronic Aquatic Toxicity	Category 2 - H411

Flammable liquids.

Category 3 - H226

**2.2. Label Elements****Hazard Pictograms****Signal Word:**

Danger

**Hazard Statements**

H226 - Flammable liquid and vapor  
 H302 - Harmful if swallowed  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H360 - May damage fertility or the unborn child  
 H370 - Causes damage to organs  
 H401 - Toxic to aquatic life  
 H411 - Toxic 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  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P233 - Keep container tightly closed  
 P240 - Ground/Bond container and receiving equipment  
 P241 - Use explosion-proof electrical/ventilating/lighting/equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 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

**Response**

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 soap and water  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 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  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention  
 P370 + P378 - In case of fire: Use CO2, dry chemical, or foam

<b>Storage</b>	P391 - Collect spillage P403 + P235 - Store in a well-ventilated place. Keep cool
<b>Disposal</b>	P405 - Store locked up 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	10 - 30%	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Repr. 1B (H360) STOT SE 1 (H370) Flam. Liq. 2 (H225)
Polyoxyalkylene	Proprietary	10 - 30%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit.2 (H319) Aquatic Acute 1 (H400) AquaticChronic 1 (H410)
Ethylene glycol monobutyl ether	111-76-2	1 - 5%	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Flam. Liq. 4 (H227)
Phosphonic Acid Salt	Proprietary	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)

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**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Eyes</b>	Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.
<b>Skin</b>	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.
<b>Ingestion</b>	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**

Harmful if swallowed. Causes skin irritation. Causes eye irritation Potential reproductive hazard. May cause birth defects. May cause damage to internal organs. Causes severe eye irritation.

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

<b>Notes to Physician</b>	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
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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

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
Methanol	67-56-1	TWA: 200 ppm	TWA: 200 ppm STEL: 250 ppm

Polyoxyalkylene	Proprietary	Not applicable	Not applicable
Ethylene glycol monobutyl ether	111-76-2	TWA: 50 ppm Skin	TWA: 20 ppm Skin
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.

**Hand Protection** Use gloves which are suitable for the chemicals present in this product as well as 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** Eyewash fountains and safety showers must be easily accessible.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Physical State:** Liquid **Color** Clear to Slightly Hazy , Light Amber to Dark Amber

**Odor:** Mild **Odor Threshold:** No information available

<u>Property</u> <u>Remarks/ - Method</u>	<u>Values</u>
<b>pH:</b>	7.5-8.5 (10% in 1:1 IPA:H2O)
<b>Freezing Point / Range</b>	-23.3 °C / -10 °F
<b>Melting Point / Range</b>	No data available
<b>Boiling Point / Range</b>	No data available
<b>Flash Point</b>	44.4 °C / 112 °F (SFCC)
<b>Flammability (solid, gas)</b>	No data available
Upper flammability limit	No data available
Lower flammability limit	No data available
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	0.9904-1.0154
<b>Water Solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No information available

**Oxidizing Properties**

No information available

**9.2. Other information****VOC Content (%)**

No data available

**Liquid Density**

8.26 - 8.46 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 nitrogen.

**11. Toxicological Information****11.1 Information on likely routes of exposure****Principle Route of Exposure** Ingestion. Eye contact. Inhalation. Skin contact.**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.

**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. Harmful if swallowed.

**Chronic Effects/Carcinogenicity** May cause birth defects. Contains known or suspected reproductive toxins.**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)
Polyoxyalkylene	Proprietary	1932 mg/kg (Rat) (Similar substances)	>2000 mg/kg (Rabbit)(Similar substances)	No data available
Ethylene glycol monobutyl ether	111-76-2	1414 mg/kg-bw (guinea pig)	>2000 mg/kg (Rabbit)	No data available
Phosphonic Acid Salt	Proprietary	No data available	No data available	No data available

Substances	CAS Number	Skin corrosion/irritation
Methanol	67-56-1	Non-irritating to the skin (Rabbit)
Polyoxyalkylene		Causes moderate skin irritation. (Rabbit) (similar substances)

Ethylene glycol monobutyl ether	111-76-2	Causes moderate skin irritation. (Rabbit)
Phosphonic Acid Salt		May cause moderate skin irritation.

Substances	CAS Number	Serious eye damage/irritation
Methanol	67-56-1	Non-irritating to the eye (Rabbit)
Polyoxyalkylene		Causes moderate eye irritation (Rabbit) (similar substances)
Ethylene glycol monobutyl ether	111-76-2	Causes moderate eye irritation (Rabbit)
Phosphonic Acid Salt		May cause moderate eye irritation.

Substances	CAS Number	Skin Sensitization
Methanol	67-56-1	Did not cause sensitization on laboratory animals (guinea pig)
Polyoxyalkylene		Did not cause sensitization on laboratory animals (similar substances)
Ethylene glycol monobutyl ether	111-76-2	Did not cause sensitization on laboratory animals (guinea pig)
Phosphonic Acid Salt		No information available

Substances	CAS Number	Respiratory Sensitization
Methanol	67-56-1	No information available
Polyoxyalkylene		No information available
Ethylene glycol monobutyl ether	111-76-2	No information available
Phosphonic Acid Salt		No information available

Substances	CAS Number	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.
Polyoxyalkylene		In vitro tests did not show mutagenic effects. (similar substances)
Ethylene glycol monobutyl ether	111-76-2	In vivo tests did not show mutagenic effects.
Phosphonic Acid Salt		No information available

Substances	CAS Number	Carcinogenic Effects
Methanol	67-56-1	No data of sufficient quality are available.
Polyoxyalkylene		No information available
Ethylene glycol monobutyl ether	111-76-2	Not regarded as carcinogenic.
Phosphonic Acid Salt		No information available

Substances	CAS Number	Reproductive toxicity
Methanol	67-56-1	Experiments have shown reproductive toxicity effects on laboratory animals
Polyoxyalkylene		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Ethylene glycol monobutyl ether	111-76-2	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Phosphonic Acid Salt		No information available

Substances	CAS Number	STOT - single exposure
Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)
Polyoxyalkylene		No data of sufficient quality are available. (similar substances)
Ethylene glycol monobutyl ether	111-76-2	No data of sufficient quality are available.
Phosphonic Acid Salt		No information available

Substances	CAS Number	STOT - repeated exposure
Methanol	67-56-1	No data of sufficient quality are available.
Polyoxyalkylene		No information available
Ethylene glycol monobutyl ether	111-76-2	No data of sufficient quality are available.
Phosphonic Acid Salt		No information available

Substances	CAS Number	Aspiration hazard
Methanol	67-56-1	Not applicable

Polyoxyalkylene		Not applicable
Ethylene glycol monobutyl ether	111-76-2	Not applicable
Phosphonic Acid Salt		No information available

## 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
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 (200 h) =14536 mg/L (Oryzias latipes)	IC50 (3h) > 1000 mg/L (activated sludge)	EC50 (96 h) =18260 mg/L (Daphnia magna) NOEC (21 d) =208 mg/L (Daphnia magna)
Polyoxyalkylene	Proprietary	EC50 (3h) 97mg/L (Pseudokirchnerella subcapitata) (Similar substances) NOEC (72h) 0.022 mg/L (Pseudokirchnerella subcapitata)(Similar substance)	LC50 (96h) 0.4 mg/L (Oncorhynchus mykiss) (Similar substance)	EC50 (3h) 97 mg/L (Activated sewage sludge, domestic) (Similar substances)	EC50 (48h) 0.098 mg/L (Daphnia magna)(similar substance)
Ethylene glycol monobutyl ether	111-76-2	EC50 (72 h) =1840 mg/L (Pseudokirchnerella subcapitata) EC50 (72h) 839.56 mg/L (Skeletonema costatum)	LC50 (96 h) =1474 mg/L (Oncorhynchus mykiss) LC50 (95h) > 1000 mg/L (Scophthalmus maximus) NOAEC (21 d) >100 mg/L (Danio rerio)	No information available	EC50 (48 h) =1800 mg/L (Daphnia magna) EC50 (21 d) =297 mg/L (Daphnia magna) EC50 (48 h) 2051.75 mg/L (Acartia tonsa)
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
Methanol	67-56-1	(95-97% @ 20d)
Polyoxyalkylene	Proprietary	(31% @ 28d)
Ethylene glycol monobutyl ether	111-76-2	Readily biodegradable (75-88% @ 28d)
Phosphonic Acid Salt	Proprietary	No information available

### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Methanol	67-56-1	-0.77 BCF = 1.0 – 4.5 (Cyprinus carpio) BCF < 10 (Leuciscus idus melanotus)
Polyoxyalkylene	Proprietary	No information available
Ethylene glycol monobutyl ether	111-76-2	0.81
Phosphonic Acid Salt	Proprietary	No information available

### 12.4. Mobility in soil

Substances	CAS Number	Mobility
Methanol	67-56-1	No information available
Polyoxyalkylene	Proprietary	No information available
Ethylene glycol monobutyl ether	111-76-2	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 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 Methanol, Ethylene Glycol Monobutyl Ether)  
**Transport Hazard Class(es):** 3  
**Packing Group:** III  
**Environmental Hazards:** Marine Pollutant  
**NAERG:** NAERG 128

**Canadian TDG**

**UN Number** UN1993  
**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Methanol, Ethylene Glycol Monobutyl Ether)  
**Transport Hazard Class(es):** 3  
**Packing Group:** III  
**Environmental Hazards:** Marine Pollutant

**IMDG/IMO**

**UN Number** UN1993  
**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Methanol, Ethylene Glycol Monobutyl Ether)  
**Transport Hazard Class(es):** 3  
**Packing Group:** III  
**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 Methanol, Ethylene Glycol Monobutyl Ether)  
**Transport Hazard Class(es):** 3  
**Packing Group:** III  
**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 Rules - S5A2
Methanol	67-56-1	Not applicable
Polyoxyalkylene	Proprietary	Not applicable
Ethylene glycol monobutyl ether	111-76-2	Not applicable
Phosphonic Acid Salt	Proprietary	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
Polyoxyalkylene	Proprietary	Not applicable
Ethylene glycol monobutyl ether	111-76-2	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable

**EPA SARA (311,312) Hazard Class**

Acute Health Hazard  
 Chronic Health Hazard  
 Fire Hazard

**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
Polyoxyalkylene	Proprietary	Not applicable	Not applicable
Ethylene glycol monobutyl ether	111-76-2	1.0%	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable	Not applicable

**EPA CERCLA/Superfund Reportable Spill Quantity**

Substances	CAS Number	CERCLA RQ
Methanol	67-56-1	5000 lb 2270 kg
Polyoxyalkylene	Proprietary	Not applicable
Ethylene glycol monobutyl ether	111-76-2	Not applicable
Phosphonic Acid Salt	Proprietary	Not applicable

**EPA RCRA Hazardous Waste Classification**

Ignitability D001

**California Proposition 65** The California Proposition 65 regulations apply to this product.

**MA Right-to-Know Law** One or more components listed.

**NJ Right-to-Know Law** One or more components listed.

**PA Right-to-Know Law** One or more components listed.

**NFPA Ratings:** Health 2, Flammability 2, Reactivity 0

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

**Canadian Regulations**

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

**16. Other information****Preparation Information**

**Prepared By** Chemical Stewardship  
 Telephone: 1-281-871-6107  
 e-mail: fdunexchem@halliburton.com

**Revision Date:** 13-Jan-2017

**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/m<sup>3</sup> - 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/](http://www.ChemADVISOR.com/)

**Disclaimer Statement**

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**End of Safety Data Sheet**