

SAFETY DATA SHEET

Product Trade Name: MC SS-5189

Revision Date: 17-Jan-2017 Revision Number: 6

1. Identification

1.1. Product Identifier

Product Trade Name: MC SS-5189
Synonyms None
Chemical Family: Alcohol
Internal ID Code MC003481

1.2 Recommended use and restrictions on use

Application:SolventUses advised againstConsumer 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 3 - H301
Acute toxicity - Dermal	Category 3 - H311
Acute inhalation toxicity - vapor	Category 3 - H331
Reproductive Toxicity	Category 1B - H360
Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370
Flammable liquids.	Category 2 - H225

2.2. Label Elements

Hazard Pictograms



Signal Word: Danger

Hazard Statements H225 - Highly flammable liquid and vapor

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H360 - May damage fertility or the unborn child

H370 - Causes damage to organs

Precautionary Statements

Response

Storage

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

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

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

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

doctor/physician

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

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

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

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

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

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
Methanol	67-56-1	60 - 100%	Acute Tox. 3 (H301)
			Acute Tox. 3 (H311)
			Acute Tox. 3 (H331)
			Repr. 1B (H360)
			STOT SE 1 (H370)
			Flam. Liq. 2 (H225)

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

4. First-Aid Measures

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Seek immediate medical attention/advice.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

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

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Potential reproductive hazard. May cause birth defects. 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

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

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.

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct

contact (recommended: protection index 6, corresponding to > 480 minutes

permeation time as per EN 374): Nitrile gloves. (>= 0.65 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. 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 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: Characteristic, Alcohol Mild Odor No information available

Threshold:

Property Values

Remarks/ - Method

pH: 6.26-7.26 (10% in 1:1 IPA:H2O)

Freezing Point / Range -40 °C / -40 °F Melting Point / Range No data available Boiling Point / Range 63.9 °C / 147 °F

Flash Point 12.2 °C / 54 °F (SFCC)

Flammability (solid, gas) No data available Upper flammability limit No data available Lower flammability limit No data available **Evaporation rate** No data available No data available **Vapor Pressure Vapor Density** No data available **Specific Gravity** 0.7805-0.8055 **Water Solubility** Soluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

Explosive PropertiesNo information available
Oxidizing Properties
No information available

9.2. Other information

VOC Content (%) No data available Liquid Density 6.51-6.72 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. Formaldehyde.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Inhalation. Eye contact. Ingestion. 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. Toxic if inhaled.

Eye Contact May cause mild eye irritation.

Skin Contact Toxic in contact with skin. May cause mild skin irritation.

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

Toxic 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)	1000 mg/kg-bw (human)	10 mg/L (human, vapor, 4h)
		< 790 to 13,000 mg/kg (rat)	17,100 mg/kg (rabbit)	
		<u> </u>		
Substances	CAS Number	Skin corrosion/irritation		
Methanol	67-56-1	Non-irritating to the skin (Rabbit)		
Substances	CAS Number	Serious eye damage/irritation		
Methanol	67-56-1	Non-irritating to the eye (Rabbit)		
		,		
Substances	CAS Number	Skin Sensitization		
Methanol	67-56-1	Did not cause sensitization on labor	atory animals (guinea pig)	
Substances	CAS Number	Respiratory Sensitization		
Methanol	67-56-1	No information available		
		,		
Substances	CAS Number	Mutagenic Effects		
Methanol	67-56-1	The weight of evidence from availal	ole in vitro and in vivo studies ind	icates that this substance is not
		expected to be mutagenic.		
Substances	CAC Number	lo		
		Carcinogenic Effects		
Methanol	67-56-1	No data of sufficient quality are ava	ilable.	
Substances	CAS Number	Reproductive toxicity		
Methanol	67-56-1	Experiments have shown reproductive toxicity effects on laboratory animals		
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Substances	CAS Number	STOT - single exposure		

Methanol	67-56-1	May cause disorder and damage to the Central Nervous System (CNS)	
6			
Substances	CAS Number	STOT - repeated exposure	
Methanol	67-56-1	No data of sufficient quality are available.	
Substances	CAS Number	Aspiration hazard	
Methanol	67-56-1	Not applicable	

12. Ecological Information

12.1. Toxicity

Ecotoxicity effects

Product is not classified as hazardous to the environment.

Substance Ecotoxicity Data

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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	IC50 (3h) > 1000 mg/L	EC50 (96 h) =18260 mg/L
		(Pseudokirchnerella	(Lepomis macrochirus)	(activated sludge)	(Dapnia magna)
		subcapitata)	EC50 (200 h) =14536		NOEC (21 d) =208 mg/L
		NOEC (8 d) =8000 mg/L	mg/L (Oryzias latipes)		(Dapnia magna)
		(Scenedesmus			
		quadricauda)			

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Methanol	67-56-1	(95-97% @ 20d)

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)

12.4. Mobility in soil

Substances	CAS Number	Mobility
Methanol	67-56-1	No information available

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

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

Contaminated Packaging Dispose of container according to national or local regulations.

14. Transport Information

US DOT

UN Number UN1230 UN proper shipping name: Methanol Transport Hazard Class(es): 3 (6.1)

Packing Group:

Environmental Hazards: Not applicable

NAERG: NAERG 131

Canadian TDG

UN Number UN1230
UN proper shipping name: Methanol
Transport Hazard Class(es): 3 (6.1)
Packing Group:

Environmental Hazards: Not applicable

IMDG/IMO

UN Number UN1230
UN proper shipping name: Methanol
Transport Hazard Class(es): 3 (6.1)
Packing Group:

Environmental Hazards: Not applicable EMS: EmS F-E, S-D

IATA/ICAO

UN Number UN1230
UN proper shipping name: Methanol
Transport Hazard Class(es): 3 (6.1)
Packing Group:

Environmental Hazards: 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
Methanol	67-56-1	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

EPA SARA (311,312) Hazard Class

Acute Health Hazard Chronic Health Hazard Fire Hazard

EPA SARA (313) Chemicals

Substances		Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Methanol	67-56-1		Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Methanol	67-56-1	5000 lb
		2270 ka

EPA RCRA Hazardous Waste Classification

Listed Waste U154 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 3, Flammability 3, Reactivity 0

HMIS Ratings: Health 3*, 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: 17-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/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
