



A HUBER COMPANY

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

MF-55®

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: MF-55®

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Oil field drilling fluid compound

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: Kelco Oil Field Group
Division of CP KELCO ApS
10920 W. Sam Houston Parkway North
Suite 800
Houston, Texas 77064 USA

Tel: +1 (713) 895-7575
Tel: +1 (800) 331-3677
Fax: +1 (713) 895-7586

E-mail customer.request@cpkelco.com

Internet www.cpkelco.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Eye irritation Category 2

Environmental Hazard Harmful to aquatic life

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication

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Standard (29 CFR 1910.1200).

GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

2.2. Label elements**Symbols/Pictograms**

None

Signal Word

Warning

Hazard Statements

H320 - Causes eye irritation
H402 - Harmful to aquatic life

Precautionary Statements**Prevention**

Do not handle until all safety precautions have been read and understood
Avoid breathing vapor or mist
Wear protective gloves/protective clothing/eye protection/face protection
Avoid release to the environment
Employ good industrial hygiene practice

Response

IF exposed or concerned: Get medical advice/attention
Wash with plenty of soap and water

Storage

Store away from incompatible materials

Disposal

Dispose of contents/containers in accordance with local regulations
Do not allow to enter into surface water or drains

Hazards not otherwise classified None known.
(HNOC)

SECTION 3: Composition/information on ingredients
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Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	EU REACH registration number	OSHA Regulatory Status	WHMIS	% by Wt
Polyacrylamide	9003-05-8	A	Y	Y	None	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)	--	--
Distillates (petroleum), hydrotreated light	64742-47-8	A	Y	Y	None	N	--	--

Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

SECTION 4: First aid measures

4.1. Description of first aid measures**General Advice**

Employ good industrial hygiene practice. Wear suitable protective clothing, gloves

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and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.

Eye Contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash with plenty of soap and water.
Ingestion	Rinse mouth thoroughly with water.
Inhalation	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Aspiration hazard	Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

General Advice Treat as "Class B" fire

5.1. Extinguishing media

Suitable Extinguishing Media	Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media	Do not use water unless flooding amounts are available.

5.2. Special hazards arising from the substance or mixture Avoid dust formation.

Explosion Data	FIRE AND EXPLOSION HAZARD : May evolve oxides of carbon (CO _x) under fire conditions. May evolve oxides of nitrogen (NO _x) under fire conditions. Water in contact with the product will cause slippery floor conditions.
Dust Explosion Hazard	None known
Hazardous Combustion Products	Carbon dioxide Carbon monoxide nitrogen oxides (NO _x)

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.
Fire-fighting measures	In case of fire and/or explosion do not breathe fumes.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away. Ensure adequate ventilation. Avoid dust formation. Use only non-sparking tools. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Use personal protection recommended in Section 8.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Do not handle until all safety precautions have been read and understood.
Avoid breathing vapor or mist
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
Employ good industrial hygiene practice
See section 8 for more information

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

OSHA Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Distillates (petroleum), hydrotreated light - 64742-47-8

OSHA	Total mist or vapor: 15 mg/m ³ Respirable mist or vapor: 5 mg/m ³
ACGIH	Total mist or vapor: 15 mg/m ³ Respirable mist or vapor: 3 mg/m ³
NIOSH	Total mist or vapor: 15 mg/m ³ Respirable mist or vapor: 5 mg/m ³

PNEC (Predicted No Effect Concentration) No information available

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DNEL (Derived No Effect Level) No information available

Biological Limit Values No information available

8.2. Exposure controls

Engineering Measures Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear suitable protective clothing.

Hand Protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Thermal hazards None known. Wear suitable protective clothing.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

Environmental Exposure Controls Dispose of in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	viscous Liquid
Color	off-white opaque
Odor	slight hydrocarbon odor
Odor Threshold	No information available
pH:	8.0
Melting Point / Melting Range	-7.6° F (-22° C)
Boiling Point	205 °F / 96 °C
Freezing Point	-7 °F / -22 °C
Flash Point	>200 °F / > 93 °C (PMCC)
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	8.56 - 8.96 lb/gal
Water Solubility	Complete
Partition coefficient	No information available
Viscosity	360 - 900 cPs @ 75 °F / 24 °C
Specific Gravity	1.05 @ 77 °F / 25 °C
Oxidizing Properties	Not applicable
VOC Content (%)	23.97 % EPA Method 24

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SECTION 10: Stability and reactivity

10.1. Reactivity	None
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Avoid mist formation Incompatible materials
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Nitrogen oxides (NOx) Carbon oxides

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation	Not an expected route of exposure. No adverse effects expected.
Skin	Prolonged or repeated contact may dry skin and cause irritation.
Eyes	High vapor concentrations may cause irritation.
Ingestion	Ingestion is not a likely route of exposure.
Aspiration hazard	Get medical attention if symptoms occur.
Symptoms related to the physical, chemical and toxicological characteristics	Vapor may cause irritation. Eyes. Skin. respiratory tract.

11.1. Information on toxicological effects**Distillates (petroleum), hydrotreated light - 64742-47-8**

Oral LD50	>5000 mg/kg (rat)
Dermal LD50	>2000 mg/kg (rabbit)
Inhalation LC50	> 5.2 mg/L 4-hour (rat)

Acute Toxicity	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory Sensitization	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation	Prolonged or repeated contact may dry skin and cause irritation.
Skin Sensitization	Based on available data, the classification criteria are not met.

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Mutagenicity	No data available.
Germ cell mutagenicity	No data available.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Single exposure	No data available.
Specific target organ toxicity - Repeated exposure	No data available.

SECTION 12: Ecological information

12.1. Ecotoxicity Harmful to aquatic life. WGK Code. 2.

Polyacrylamide - 9003-05-8

96-Hour LC50 Mysid shrimp in a standard drilling mud: >1,000,000 suspended particulate phase
WGK Classification (AwSV) 8136 WGK:2

Distillates (petroleum), hydrotreated light - 64742-47-8

96-Hour LC50 Pimephales promelas: 45 mg/L [flow-through] Lepomis macrochirus: 2.2 mg/L [static] Oncorhynchus mykiss: 2.4 mg/L [static] Den-dronereides heteropoda: 4720 mg/L
WGK Classification (AwSV) 9166 WGK:1

12.2. Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Partition coefficient Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Waste codes

Waste codes should be assigned by the user based on the application for which the product was used

Disposal Methods

Dispose of waste product or used containers according to local regulations

SECTION 14: Transport information**Mode of Transportation (Road, Water, Air, Rail)**

TDG -Canada	Not regulated
US DOT	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number None**14.2. UN proper shipping name** None**14.3. Transport hazard class(es)** None**14.4. Packing group** None**14.5. Environmental hazards** No**14.6. Special precautions for user** Not applicable**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable**SECTION 15: Regulatory information****Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Polyacrylamide	9003-05-8	--	None	Y	Y	Y	(6)-849 (ENCS)	KE-29375	Y	Y	Y	Y	A
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	None	Y	Y	Y	(9)-1700 (ENCS)	KE-12550	Y	Y	Y	Y	A

Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

US Federal Regulations**EPA****CERCLA**
Not listed

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SARA 313

No TRI reporting

SARA 302

No

SARA 304

Not listed

SARA 311/312 Hazardous Categorization

Immediate: Yes

CWA (Clean Water Act)

Not regulated

CAA (Clean Air Act)

Not regulated

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Polyacrylamide	9003-05-8					
Distillates (petroleum), hydrotreated light	64742-47-8					

Legend Y: Listed ; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

CANADA**WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information**Prepared by**

CP Kelco Global Regulatory Affairs
Email: Regulatory.Affairs@cpkelco.com

Reason for Version

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

Training Advice

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

Abbreviations and acronyms

IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)
DOT (Department of Transportation)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
TWA (Time-Weighted Average)

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CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))
PPE (Personal Protection Equipment)
NIOSH (National Institute for Occupational Safety and Health)
TDG (Transport of Dangerous Goods) Canada
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
RQ (Reportable Quantity) (RQ/% in mixture)
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)
SVHC (Substances of Very High Concern)
BOD (Biochemical oxygen demand)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
PNEC (Predicted No Effect Concentration)
GHS (Globally Harmonized System)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet