Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

PM 100

1. Identification of the Substance/ Mixture and of the Company/ Undertaking

Product Name: PM 100

Preparation Date: July 22, 2016
Revision Date:

Recommended Use: Soil erosion control

Supplier: MONROE FLUID TECHNOLOGY
36 Draffin Road,
Hilton, NY 14468

Phone: 800-828-6351 585-392-3434

EMERGENCY NUMBERS: CHEMTREC (800) 424-9300
Monroe Fluid Technology (800) 828-6351

2. Hazards Identification

GHS Classification: Not classified as hazardous

GHS Labeling:

Symbols: None

Signal Word: None

Precautionary Statements: None

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] and OSHA 29 CFR 1910.1200 HCS: Not classified as hazardous

Other Hazards Not Classified: No significant hazards

3. *Composition/Information on Ingredients*

Mixture: Fats, oils and additives.

Chemical Name	CAS Number	Concentration, Wt. %
A complex mixture of synthetic linear, branched and cyclic alkanes		Trade secret

4. First Aid

Inhalation: If inhaled, move to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Contact a physician immediately.

Eyes: Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. If irritation develops, contact a physician immediately.

Ingestion: Do not induce vomiting. Contact a physician immediately.

Skin: Wash affected area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Contact a physician if irritation develops.

5. Fire-fighting Measures

Suitable extinguishing media: Use foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires

Specific hazards: Hazardous combustion products may include: a complex mixture of airborne solid and liquid particulates and gasses (smoke). Carbon monoxide. Unidentified compounds

Specific protective equipment and precautions for fire fighters: Do NOT use water in a jet. Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

Unusual Fire and Explosion Hazards: None

Flammability Properties:

Flash point: 216º C
Method Used: PMCC

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions: Do not allow spilled material to enter sewers or streams. If spills are likely to enter any drain, waterway or groundwater, contact the appropriate governmental agency.

Methods and materials for containment: Add dry material to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal.

7. Handling and Storage

Precautions for safe handling: Prevent small spills and leakage to avoid slip hazard. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mist. Keep out of the reach of children.

Conditions for safe storage: Store in closed containers in a cool, dry well ventilated area not exposed to sunlight. Maintain closure of bungs. Do not reuse container. Avoid container damage while storing. Do not allow material to be stored below 0°C. Do not allow material to freeze.
Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

8. Exposure Controls/Personal Protection

Control parameters:

Exposure Guidelines: Exposure limits

ACGIH (Mist) :	TWA (inhalable fraction)	5 mg/m^3
OSHA Z1 (Mist):	PEL	5 mg/m^3
OSHA Z1A (Mist):	TWA	5 mg/m^3

Appropriate engineering controls: Proper protection and controls is dependent upon the potential exposure conditions. No special requirements are needed under ordinary conditions where adequate ventilation is available.

Individual protective measures:

Respiratory protection: General room ventilation should be satisfactory. Exhaust ventilation may be necessary if misting is generated.

Eye protection: Safety glasses with shields or chemical goggles are required. Contact lenses should not be worn if the product could be splashed into the eyes.

Hand protection: Rubber gloves are recommended for single, short duration exposures and for prolonged or repeated exposures.

Body protection: For single, short duration and for prolonged or repeated exposures to the skin, wear impervious, protective clothing including rubber safety shoes to avoid skin contact.

9. Physical and Chemical Properties

ANILINE POINT	235 °F (113 °C)
ASH CONTENT	<0.01% (None detected)
AUTO IGNITION TEMPERATURE	>605° F (>318° C)
BOILING POINT	464 °F (240 °C)
CLOUD POINT	-22 °F (-30 °C)
COLOR	None. Colorless, clear and bright
CONDUCTIVITY	5,886 pS/m
DENSITY	<6.8 lb/gal (816 kg/m³) @ 59 °F (15 °C)
DIELECTRIC STRENGTH	46 MV/m
FLASH POINT	474 °F (246 °C) (ASTM D92 COC)
FLASH POINT	420 °F (216 °C) (ASTM D93 PMCC)
GROSS CLORIFIC VALUE	>20,200 BTU/lb (>47.0 MJ/kg)
KINEMATIC VISCOSITY	4 cSt @ 212 °F (100 °C)
NET CALORIC VALUE	>18,800 BTU/lb (>43.8 MJ/kg)
ODOR	None, Odorless
OIL SHEEN	None. Oil sheen free
PH	Not applicable. Not an aqueous solution
PHYSICAL FORM	Liquid, Synthetic Fluid
POUR POINT	-40 °F (-40 °C)
SPECIFIC GRAVITY	0.8155 @ 59 °F (15 °C)
VAPOR DENSITY	>1 (Air = 1)
VAPOR PRESSURE	<0.5 Pa @ 68 °F (20 °C)

VISCOSITY INDEX	130 (minimal change with temperature)
WATER CONTENT	<0.01% (None detected)
WATER SOLUBILITY	Insoluble

10. Stability and Reactivity

Chemical stability: Stable at normal conditions

Possibility of hazardous reactions: Not expected and hazardous polymerization will not occur

Conditions to avoid: Excessive Heat.

Incompatible Materials: Strong oxidizing agents

Hazardous decomposition products: Hazardous decomposition products are NOT expected to form during normal storage.

11. Toxicological Information

Skin Irritation

Expected to be slightly irritating. Prolonged or repeated contact may cause defatting of the skin which can lead to dermatitis.

Eye Irritation

Expected to be slightly irritating

Respiratory Irritation

Inhalation of vapors or mists may cause irritation

Sensitization

NOT expected to be a skin sensitizer

Repeated Dose Toxicity

NOT expected to be a hazard

Carcinogenicity

Components are NOT known to be associated with carcinogenic effects.

OSHA	U.S. Occupational Safety and Health Administration	Not listed as carcinogenic
NTP	U.S. National Toxicology Program	Not listed as carcinogenic
IARC	World Health Organization International Agency for Research on Cancer	Not listed as carcinogenic
Prop 65	California Office of Environmental Health Hazard Assessment Proposition 65	Not listed as carcinogenic

Reproductive and Developmental Toxicity

NOT expected to be a hazard.

BENZENE & NAPHTHALENE	None Detected – EPA 5030B & 8260B
DIOXINS & FURANS (PCDDs / PCDFs)	None Detected – QC066-97, GC-MS
HALOGENATED VOLATILE ORGANICS	None Detected – EPA 5030B & 8260B
METALS (TCLP)	None Detected - EPA 6010B & 7470A
METALS	None Detected - EPA 200.7 & 245.1
METALS	None Detected – EPA 6020 & 3050B, ICP
MUTAGENICITY	None Detected – APHA 8030B

PESTICIDES, HERBICIDES AND PCBS	None Detected - EPA 8151A
PESTICIDES, HERBICIDES AND PCBS (TCLP)	None Detected - EPA 8081A & 8151A
PHENOLIC COMPOUNDS	None Detected – QC066-97, GC-MS
POLYCHLORINATED BIPHENYL (PCBs)	None Detected – GC-MS
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)	None Detected – EPA 3510, QC058-97, GC-MS
SEMI-VOLATILE ORGANIC COMPOUNDS	None Detected – EPA 3510 & 8270, GC-MS
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC)	None Detected - EPA 8270C
SEMI-VOLATILE ORGANIC COMPOUNDS (TCLP)	None Detected - EPA 8270 & 1311
VOLATILE ORGANIC COMPOUNDS (TCLP)	None Detected - EPA 8260
VOLATILE ORGANIC COMPOUNDS (VOC)	None Detected - EPA 8260B

12. Ecological Information

Aquatic Toxicity

Bacterium	Aliivibrio fischeri	15 minute	IC_{50}	>500,000 mg/L
Fathead Minnow	Pimephales promelas	7 day	IC_{25}	>2,000 mg/L
Fathead Minnow	Pimephales promelas	7 day	IC_{50}	>39,000 mg/L
Fathead Minnow	Pimephales promelas	7 day	LC_{50}	>28,000 mg/L
Microalga	Pseudokirchneriella subcapitata	96 hour	IC_{50}	>500,000 mg/L
Mysid Shrimp	Americamysis bahia	7 day	IC_{25}	>1,000 mg/L
Mysid Shrimp	Americamysis bahia	7 day	LC_{50}	>2,000 mg/L
Rainbow Trout	Oncorhynchus mykiss	96 hour	LC_{50}	>2,000 mg/L
Water Flea	Daphnia magna	48 hour	LC_{50}	18,000 mg/L

Terrestrial Toxicity

Earthworm	Eisenia andrei	14 day	LC_{50}	>670,000 mg/L
Lettuce	Root elongation	120 hour	EC_{50}	>13,000 mg/L
Lettuce	Seed germination	120 hour	LC_{50}	>680,000 mg/L

Degradability

Major constituents are expected to be readily biodegradable

Mobility

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to the soil particles and will NOT be mobile.

Other Adverse Effects

The synthetic fluid contains non-volatile components, which are NOT expected to be released to air in any significant quantities. Synthetic fluid is NOT expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. Disposal Considerations

Material Disposal

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do NOT dispose into the environment, in drains or in water courses.

Container Disposal

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Local Legislastion

Dispose in accordance with applicable regional, national and local laws and regulations

14. Transport Information

U.S. Department of Transportation (DOT)

NOT regulated. This material is NOT subject to DOT regulations under 49 CFR Parts 171-180.

International Maritime Dangerous Goods (IMDG)

NOT regulated. This material is NOT classified as dangerous under IMDG regulations.

International Air Transport Association (IATA)

NOT regulated. This material is either NOT classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

U.S. FEDERAL REGULATIONS

EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA)

This material does NOT contain any chemicals with U.S. EPA CERCLA reportable quantities.

EPA SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA)

This material does NOT contain any chemicals with SARA reportable quantities.

EPA TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components listed.

EPA CERCLA/SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES AND TPQS

This material does NOT contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

EPA CERCLA/SARA SECTION 311/312 (TITLE III HAZARD CATEGORIES)

Acute Health: No
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

EPA CERCLA/SARA SECTION 313 AND 40 CFR 372

This material does NOT contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

U.S. STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

This material does NOT contain any chemicals known to the State of California to cause cancer, birth defects or reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the
SDS contains all the information required by the regulations.

CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

All components listed.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHIMIS)

None. This synthetic fluid is NOT a controlled product under the Canadian WHIMIS.

EUROPEAN REGULATIONS

EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS)

All components listed.

16. Other Information

SDS VERSION NUMBER 1.3

SDS EFFECTIVE DATE 6/29/2015

SDS REGULATIONS

The content and format of this SDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SDS DISTRIBUTION

The information in this document should be made available to all who may handle the product.

DISCLAIMER

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