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Version 2.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name MAXX FDRCE FLA

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
Valence Drilling Fluids
609 S. Kelly Ave Suite D-1
Edmond, OK 73003
Telephone: +1 405-285-6454

E-mail address jrubin@valencedf.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 Chemtrec international: +1 703 527 3887

2. HAZARDS IDENTIFICATION

Classification

Combustible dust

Label elements

Emergency Overview

Warning

May form combustible dust concentrations in air

Appearance granules

Physical state Solid

Odor Odorless

Hazards not otherwise classified (HNOC)

Not Applicable

Unknown Acute Toxicity

0% of the substance or mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye contact

Keep eye wide open while rinsing. Call a physician immediately. Particles should be removed from the eye by trained medical personnel only.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO2 or water spray.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Avoid creating dust. May form explosive mixtures with air.

Explosion data

Dusts or fumes may form explosive mixtures in air

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Under dusty conditions, static electricity may cause an explosion. Dissipate static electricity. Remove all ignition sources.

Environmental precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Avoid creating dust. Good housekeeping must be practiced during storage, transfer, handling, and use of this material to avoid excessive dust accumulation in the form of deposit. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any Incompatibilities**Storage Conditions**

Keep containers tightly closed in a cool, well-ventilated place. Use spark-proof tools and explosion-proof equipment.

Incompatible materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Appropriate engineering controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state
Appearance
Color

Solid
granules
white

Odor threshold
Odor

Not determined
Odorless

Property**Values****Remarks • Method**

pH

Not Applicable

Melting point/freezing point

No data available

Boiling point / boiling range

No data available

Flash point

Not Applicable

Evaporation rate

Not Applicable

Flammability (solid, gas)

No information available

Flammability Limit in Air

Upper flammability limit:

No information available

Lower flammability limit:

No information available

Vapor pressure

Not Applicable

Vapor density

Not Applicable

Water solubility

Insoluble in water

No information available

Solubility in other solvents

No information available

Partition coefficient

No information available

Autoignition temperature	No data available
Decomposition temperature	No information available
Kinematic viscosity	Not Applicable
Dynamic viscosity	Not Applicable
Explosive properties	Not an explosive
Oxidizing properties	No information available

Other Information**Explosion severity**

Danger of Explosion, cloud	ST1 (VDI 3673)	
Minimum Ignition Energy, Cloud, mJ	12-16 mJ	
KST, (cloud), bar.m.s-1	71 bar.m.s-1	
Pmax maximum explosion pressure, Cloud, bar	6.9 bar	
VMP, (cloud), bar.s-1	265	
LOC Limiting Oxygen Concentration, Cloud, %v/v O2		
Softening point		No information available
Molecular weight		No information available
Density	1.03	
Bulk density		No information available
Specific Gravity		No information available
Granulometry		No information available
Moisture content	0.5	%

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

dust formation. Take precautionary measures against static discharges.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information or data specific to the product on this toxicological (health) effect is available
Germ cell mutagenicity No information or data specific to the product on this toxicological (health) effect is available.
Carcinogenicity No information or data specific to the product on this toxicological (health) effect is available.
Reproductive toxicity No information or data specific to the product on this toxicological (health) effect is available.
STOT - single exposure No information or data specific to the product on this toxicological (health) effect is available.
STOT - repeated exposure No information or data specific to the product on this toxicological (health) effect is available.
Aspiration hazard No information or data specific to the product on this toxicological (health) effect is available.

Numerical measures of toxicity - Product Information**12. ECOLOGICAL INFORMATION****Ecotoxicity****Persistence and degradability**

No information available.

Bioaccumulation

Not Applicable.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

AICS	Yes
DSL	Yes
IECSC	Yes
EINECS	Yes
ENCS	Yes
KECL	Yes
PICCS	Not determined
TSCA	Yes
NZIoC	Yes

Legend:

AICS - Australian Inventory of Chemical Substances
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 IECSC - China Inventory of Existing Chemical Substances
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X

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 Revision Note
 SDS sections updated (***)

Disclaimer

The information provided above is intended as a guide to assist in the safe handling, use, processing, storage, transportation, disposal and release of the material listed. Nothing contained herein is to be considered as an express or implied warranty of performance or quality. The information relates only to the specific material designated and may not be applicable when such material is used in combination with any other materials or as part of any process, except as otherwise expressly described herein. The information is believed to be true and correct as of the date issued. Always make sure you are using the most current information available. The material described herein is produced for commercial and industrial use only and unless otherwise specifically designated by the manufacturer in writing has not received any specific regulatory approval such as approvals for food contact or for use in medical/surgical applications or devices. It is buyer and user's sole and exclusive responsibility to ensure that any handling, use, processing, storage, transportation, disposal and release of the material complies with all applicable laws, rules and regulations.

End of Safety Data Sheet