

Preparation Date: February 18, 2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Quantum EF™
Chemical Name: Not Applicable.
Synonyms: Not Applicable.
Manufacturers Name: Rapid Energy Services, LLC
Manufacturers Address: 1424 South Hugh Wallis Rd.
Emergency Telephone Number: (Chem Tel) 1-888-255-3924

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%	PEL/TWA/TLV/ACGIH
Proprietary Seed Oil	Proprietary Information	10-30%	Not established.
Water	7732-18-5	70-90%	N/A

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to Section 14 for applicable states right to know and other regulatory information.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Caution! Heating may release vapors or finely misted materials that may irritate the mucous membranes, cause dizziness, and nausea.

Principle Routes of Exposure: Eyes, Skin, Inhalation.

Potential Health Effects

Eyes: May cause slight eye irritation. Irrigate eye with water for 15 to 20 minutes. Seek medical attention if symptoms persist.

Skin: Brief contact is essentially nonirritating to skin.

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache, dizziness and nausea.

Ingestion: No hazards are anticipated from ingestion incidental to industrial exposure.

5. FIRE-FIGHTING MEASURES

Flash Point: >200°C (>392 °F) Pensky-Martens Closed Cup ASTM D93

Flammable Limits: None known.

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

5. FIRE-FIGHTING MEASURES (CONTINUED)

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Protective Equipment and Precautions for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing. Avoid contact with this material during fire fighting operations. If contact is likely, change to chemical resistant fire fighting clothing with self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Remove sources of ignition. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling for additional precautionary measures. Use appropriate safety equipment. For additional information refer to section 8, Exposure Control and Personal Protection.

Steps to be Taken if Material is Released or Spilled: Small spills: Absorb with materials such as cat litter, sawdust, vermiculite or Zorb-all®. Collect a suitable and properly labeled containers. Large spills: Dike area to contain spill. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Storage: Store between 10°C (50°F) and 49°C (120°F) for best shelf life. Keep away from oxidizing agents, excessive heat and ignition sources. Store and use in a well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ventilation: Use local exhaust ventilation or other engineering controls to maintain airborne levels below exposure limits. If there are no applicable exposure limit requirements general ventilation should be sufficient for most operations.

Personal Protective Equipment

Eye/Face Protection: Use safety glasses. If exposure causes discomfort, use a full-face respirator.

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full-body suit will depend on the task. When handling hot material, protect skin from thermal burns as well as from skin absorption.

Hand Protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Natural rubber (Latex), Neoprene, Nitrile, Polyethylene, Ethyl vinyl alcohol laminate (EVAL), Polyvinyl alcohol (PVA), Polyvinyl chloride (PVC or vinyl).

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Ingestion: Avoid ingestion. Incidental industrial ingestion is not expected to pose specific hazards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque brown
Physical State:	Viscous Liquid
pH:	<10.0
Density:	1031 kg/m ³ - 1558 kg/m ³ (8.6 lb/gal - 13.0 lb/gal)
Flash Point (°F):	>200°C (>392 °F) Pensky-Martens Closed Cup ASTM D93
Vapor Pressure:	<1 mm Hg
Vapor Density:	>1.0 (Air = 1)
Water Solubility:	Dispersible

10. STABILITY AND REACTIVITY

Chemical Stability: Thermally stable at typical use temperatures.

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose.

Incompatible Materials: Avoid contact with strong acids, strong bases and strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition products depend on temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes, alcohols and ethers.

Possibility of Hazardous Reactions: Will not occur.

11. DISPOSAL CONSIDERATIONS

Waste Disposal Method: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

12. TRANSPORT INFORMATION**DOT Transportation Data**

Proper Shipping Name: Not applicable.

Hazard Class: N/A

Subsidiary Class: N/A

UN Number: N/A

Packing Group: N/A

Reportable Quantity (RQ): N/A

Marine Pollutant: Not a marine pollutant.

13. REGULATORY INFORMATION**International Inventories:**

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements under 40 CFR 720.30.

CEPA - Domestic Substances List (DSL): This product does not contain any substances which are not listed on the Canadian Domestic Substances List (DSL).

Federal Regulations:

SARA 313: This product does not contain the following substances which are subject to the reporting requirements of Section 313 of Title III Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

13. REGULATORY INFORMATION (CONTINUED)**State Regulations:****Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:**

None of the components of this product are listed on the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

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

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the state.

SARA 311/312 Hazardous Categorization:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

14. OTHER INFORMATION

The information and recommendations contained herein are, to the best of RAPID ENERGY SERVICES, LLC's knowledge and belief, accurate and reliable as of the last revision date. This document is offered in good faith. The information relates to the specific material designated, and may not be valid for such material used in combination with any other materials, in any process, or if used in a matter other than for which it is intended.

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Signed: Safety Officer
Date: Aug 25, 2008
Revised: N/A