

Material Safety Data Sheet

FIRECAPE FP-47

MSDS ID: CR-101

***** Section 1 - Chemical Product and Company Identification *****

Chemical Name: Copolymer of acrylamide and monomers containing anionic groups as a w/o emulsion in hydrotreated heavy naphtha

Manufacturer Information

Stockhausen Inc.
2401 Doyle Street
Greensboro, NC 27406

Phone: (800) 242-2271

Emergency # (800) 424-9300

General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving the product. All non-emergency questions should be directed to the toll free customer service number.

***** Section 2 - Composition / Information on Ingredients *****

CAS #	Component	Percent
25085-02-3	2-Propenoic acid, sodium salt, polymer with 2-propenamamide	25-30
64742-48-9	Naphtha (petroleum), hydrotreated heavy	25-30
9016-45-9	Ethylene oxide-Nonylphenol polymer	1-5

Component Information/Information on Non-Hazardous Components

None

***** Section 3 - Hazards Identification *******Emergency Overview**

Concentrate contains surfactants that may cause eye irritation on contact.

Potential Health Effects: Eyes

Concentrate may cause burning, itching and other discomfort, resulting in reddening of the eyes.

Potential Health Effects: Skin

Concentrate may cause skin irritation.

Potential Health Effects: Ingestion

As in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

Potential Health Effects: Inhalation

Irritation of the mucous membranes may result from inhalation of vapors or mists.

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

***** Section 4 - First Aid Measures *******First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes.

First Aid: Skin

Wash with soap and water. Remove contaminated clothing.

First Aid: Ingestion

If swallowed, seek medical attention.

First Aid: Inhalation

If inhaled, move to source of fresh air. Seek medical attention if symptoms persist.

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*** Section 5 - Fire Fighting Measures ***

Flash Point: >212F

Upper Flammable Limit (UFL): NE

Auto Ignition: NE

General Fire Hazards

Petroleum hydrocarbon component, although formulated to prevent separation, if separated can burn. It has a flashpoint of about 265F. (Cleveland Open Cup)

Hazardous Combustion Products

On thermal decomposition, oxides of carbon and nitrogen.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Very slippery conditions are created if spilled product comes in contact with water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Clean up concentrate spills using absorbent material. Prevent discharge of concentrate into waterways. Obtain prior approval before discharge on concentrate into waste water treatment systems.

Clean-Up Procedures

Use caution after contact of product with water as very slippery conditions will result. Residuals may be flushed with water into the drain for normal wastewater treatment.

Evacuation Procedures

None required.

Special Procedures

Qualified and approved wildland fire chemicals, including Firecape FP-47, have been tested as required by the U.S. Forest Service with regard to mammalian toxicity as determined by acute oral and dermal toxicity as well as skin and eye irritation tests. Also, fish toxicity tests were performed on rainbow trout, using protocols required in the specification for Class A, fire suppressant foams. All toxicity testing results met U.S. Forest Service requirements.

*** Section 7 - Handling and Storage ***

Handling Procedures

Handle as an eye and respiratory tract irritant. Use chemical/splash goggles when handling concentrate.

Storage Procedures

Store in a cool, dry location.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

None

B: Component Exposure Limits

No information is available.

Engineering Controls

None

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PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields when using end product. Wear chemical/splash goggles when handling concentrate.

Personal Protective Equipment: Skin

Use impervious gloves when handling the concentrate in the manufacturing environment.

Personal Protective Equipment: Respiratory

Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Opaque
Physical State: Liquid
Vapor Pressure: NE
Boiling Point: ~96C
Solubility (H2O): Emulsifies in water

Odor: Mild hydrocarbon odor
pH: 7.0 @27.5g/l (20C)
Vapor Density: NE
Melting Point: NE
Specific Gravity: 1.1 g/cm³

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

The product is stable.

Chemical Stability: Conditions to Avoid

None

Incompatibility

Strong oxidizers and strong acids.

Hazardous Decomposition

Will not decompose during storage.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

Acute oral toxicity: LD50 (undiluted concentrate, albino rats)
Dose: >5000 mg/kg
Oral intubation

Acute dermal toxicity: LD50 (albino rabbit)
Dose:>2020 mg/kg
Undiluted concentrate to intact skin

Acute skin irritation: Rabbit
Slight irritant, undiluted concentrate

Eye irritation: Rabbit (undiluted concentrate)
Nonwashed eyes- severely irritating
Washed eyes- mildly irritating

Sensitization: Guinea pig (Stockhausen test) - No sensitization

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Carcinogenicity

None

Chronic Toxicity

No chronic health effects have been observed.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Aquatic toxicity: Rainbow trout (60 days post hatch)

LC50= 28 mg/L

ASTM soft water

Forest Service requirement: LC50 >or = 10 mg/L

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No information available,

Environmental Fate

Biodegradation: 45 % biodegraded in 42 days

Method: EPA OPPTS 835-3110, Section O

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Place collected concentrate/absorbent material into suitable containers for proper disposal.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of in accordance with Local, State and Federal regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Additional Info.:

International Transportation Regulations

This product is not transport regulated.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is not Federally regulated as a hazardous material.

B: Clean Air Act

No information is available.

State Regulations

A: General Product Information

This product is not regulated by any State as a hazardous material.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

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Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
2-Propenoic acid, sodium salt, polymer with 2-propenamide	25085-02-3	Yes	Yes	No
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Yes	Yes	Yes
Ethylene oxide-Nonylphenol polymer	9016-45-9	Yes	Yes	No

*** Section 16 - Other Information ***

Other Information

Key/Legend

Contact: Product Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS # CR-101