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#### **SAFETY DATA SHEET**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FM-9012

CHEMICAL FAMILY: Liquid Cationic Polyacrylamide

COMPANY IDENTIFICATION: FIFE WATER SERVICES

105 CHURCH ST. O'FALLON, MO 63366 TEL: (636) 281-4580

FAX: (636) 281-4490

**HMIS CODE** 

Health 2

Flammability 1

Reactivity 0

EMERGENCY PHONE NUMBER USA: 1 800 424 9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Eye irritation; Category 2; Causes serious eye irritation.;

## **GHS-Labelling**

**Hazard pictograms** 



Signal word : Warning

Hazard statements : Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical

advice/ attention.

Caution - Slippery when wet! Causes eye irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## **Hazardous components**

#### OSHA REGULATED COMPONENTS

Chemical Name	CAS. NO.	Concentration %
Petroleum distillate hydrotreated light	064742-47-8	20.0-24.0 %
Alcohols, C12—16, ethoxylated	68551-12-2	0-2.7 %
Alcohols, C10—16, ethoxylated	68002-97-1	0-2.7 %
Alkyl,(c-12-C-14) Alcohols, ethoxylated>2-10 EO	68439-50-9	0-2.7 %
Citric acid	77-92-9	1.5-3.0%

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

## 4. FIRST AID MEASURES

## **Description of first aid measures**

#### General advice:

Show the safety data sheet to the doctor in attendance.

#### lf inhalad:

If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

### If on skin:

Take off contaminated clothing. Wash affected areas thoroughly with soap and water. Seek medical attention.

#### If in eyes:

Rinse immediately with plenty of water, also under eyelids for at least 15 min.

## Ingestion:

If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Obtain medical attention.

## 5. FIRE FIGHTING MEASURES

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## Suitable extinguishing media:

Dry powder, foam, water spray.

#### Unsuitable extinguishing media for safety reasons:

Water jet

### Additional information:

If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

## Hazards during fire-fighting:

Harmful vapors Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Spilled product is slippery underfoot. Very slippery when wet.

## Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

### **Further information:**

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

### **6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions:

Use personal protective clothing. Keep people away and stay on the upwind side.

### **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

### Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

#### **Further information:**

High risk of slipping due to leakage/spillage of product.

### 7. HANDLING AND STORAGE

## **Handling**

### General advice:

Keep away from sources of ignition -No smoking.

## Protection against fire and explosion:

Take precautionary measures against static discharges.

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### **Storage**

#### General advice:

Keep container tightly closed and dry; store in a cool place.

### Storage stability:

Avoid extreme heat. Avoid freezing.

### Temperature tolerance

Avoid freezing.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Distillates (petroleum),

Hydrotreated light ACGIH TWA value 200 mg/m3 Non-aerosol (total hydrocarbon

vapor); Application restricted to conditions in which there are

negligible aerosol exposures.

Skin Designation Non-aerosol (total hydrocarbon vapor); the

substance can be absorbed through the skin.

#### Personal protective equipment

### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.

### Hand protection:

Chemical resistant protective gloves

### Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

#### **Body protection:**

Impermeable protective clothing

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid, emulsion Odor: hydrocarbon-like

Color: greyish white pH value: ca 4

Density: 1.0 g/cm3 (20 C) Solubility in water: limited by viscocity

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

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#### 10. STABILITY AND REACTIVITY

#### Conditions to avoid:

Stable under recommended storage conditions.

#### Substances to avoid:

Strong oxidizing agents.

### **Hazardous reactions:**

Hazardous polymerization does not occur.

### **Decomposition products:**

Oxides of nitrogen, ammonia, hydrogen chloride, sulphur dioxide, carbon dioxide, carbon monoxide.

## **Corrosion to metals:**

To avoid product degradation and equipment corrosion, do not use on iron, copper or aluminum containers or equipment.

### 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Acute oral toxicity Conclusion: The acute toxicological results displayed may not

be the results of actual testing of this material but based on a

similar tested material.

/>Remarks: estimated /Rat/5,000 mg/kg/LD50

Acute oral toxicity Distillates (petroleum), hydrotreated light:

/>/Rat/5,000 mg/kg/LD50

Acute inhalation toxicity LC50/Rat/4 h/>/20 mg/lRemarks: estimated

Acute inhalation toxicity Distillates (petroleum), hydrotreated light:

LC50/Rat/4 h/>/5.2 mg/l

Acute dermal toxicity LD50/Rabbit/>

/3,160 mg/kg

Remarks: estimated

Acute dermal toxicity Distillates (petroleum), hydrotreated light:

LD50/Rabbit/> /2,000 mg/kg

Skin corrosion/irritation Remarks: The toxicological data has been taken from

products of similar composition. Conclusion: Irritating to skin.

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In Case of Chemical Emergency, Call Chemtrec: 1-800-424-9300

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Serious eye damage/eye

irritation

Remarks: The toxicological data has been taken from

products of similar composition.

Conclusion: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Conclusion: Not sensitizing.

Skin sensitisation Distillates (petroleum), hydrotreated light:

Conclusion: This substance is not classified as a sensitizer.

Germ cell mutagenicity

Genotoxicity in vitro Distillates (petroleum), hydrotreated light:

Conclusion: No known effect.

Genotoxicity in vivo Distillates (petroleum), hydrotreated light:

Conclusion: not mutagenic

Carcinogenicity

Carcinogenicity Distillates (petroleum), hydrotreated light:

Not classified by IARC or NTP.

Reproductive toxicity

Toxicity for reproduction Distillates (petroleum), hydrotreated light:

Conclusion: Did not show teratogenic effects in animal

experiments.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** 

**Aquatic toxicity** 

**Aquatic toxicity** 

The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts. Ecotoxicological information provided is based on a structurally or compositionally similar product

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EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 10 - 100 mg/l Remarks: similar product

IC50/algae/Growth inhibition/OECD Test Guideline 201:

Due to the cationicity of the polymer, test is not appropriate.

Remarks: The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

## **Toxicity to other Organisms:**

Remarks: No data available

## Persistence and degradability

Biological degradability:

CO2 Evolution Test/OECD Test Guideline 301B:

The polymeric ingredient is not readily biodegradable, but degradable by hydrolysis.

### **Bioaccumulative potential**

Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water: No data available

## Mobility in soil

Water solubility: Limited by viscosity. Surface tension: not determined

## 13. DISPOSAL CONSIDERATIONS

## Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

#### Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

#### RCRA:

Not a hazardous waste under RCRA (40 CFR 261).

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### 14. TRANSPORT INFORMATION

Land transport

USDOT Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

### 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture

## **SARA Title III Section 311 Categories**

Immediate (Acute) Health Effects: Yes;

Delayed (Chronic) Health Effects: No;

Fire Hazard: No; Sudden Release Of Pressure Hazard: No;

Reactivity Hazard: No;

#### **SARA 302 Extremely Hazardous Substances**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

None Present ()

## **SARA 313 - Specific Toxic Chemical Listings**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

None Present ()

## **California Proposition 65**

Acrylamide (79-06-1) < 0.01 %

Ethylene oxide (75-21-8) < 0.1 PPM

Remarks: This product contains a chemical or chemicals known to the state of

California to cause cancer, birth defects or other reproduction harm.

Other regulations : None.

### **Notification status**

: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

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- : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
- : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
- : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
- : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical

### Substances (AICS).

- : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).
- : All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
- : All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
- : All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
- : All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
- : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- : All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
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### **16. OTHER INFORMATION**

## **HMIS RATING**

Health: 2 Flammability: 1 Reactivity: 0

# NFPA HAZARD RATING (National Fire Protection Association)

Fire 1
Health 2
Reactivity: 0
Special -

FIRE: Materials that must be preheated before ignition can occur.

HEALTH: Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

REACTIVITY: Materials that in themselves are normally stable, even under fire exposure conditions.

## **REASON FOR ISSUE:**

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