

SDS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **FM-3014**
RECOMMENDED USE: Flocculation agent

COMPANY IDENTIFICATION: **FIFE WATER SERVICES**
105 Church St.
O'Fallon, MO 63366
TEL: (636) 281-4580
FAX: (636) 281-4490

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

HMIS CODE

Health 1

Flammability 1

Reactivity 0

2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2
Eye irritation : Category 2A
Specific target organ toxicity : Category 3 (Central nervous system)
- single exposure

GHS label elements

Emergency overview

Signal Word: Warning



Hazard Statement:

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.
P271 Use only outdoors or in well ventilated area.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (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.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Emergency overview**WARNING:**

Causes eye irritation. CAUSES SKIN IRRITATION.

Contains petroleum distillates and prolonged contact with mists may cause skin, eye and respiratory tract irritation. Continued overexposure may cause headache and dizziness. Ingestion may cause lung complications.

Caution - Slippery when wet!

Use NIOSH approved respirator as needed to mitigate exposure. Wear chemical resistant protective gloves.

Wear NIOSH-certified chemical goggles.

Eye wash fountains and safety showers must be easily accessible.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Static Accumulator

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ALIPHATIC HYDROCARBON	Trade Secret	Flam. Liq. 4; H227 Asp. Tox. 1; H304	>= 20 - < 30
ALCOHOL ALKOXYLATES	Trade Secret	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1.5 - < 3

4. FIRST-AID MEASURES**General advice:**

Immediately remove contaminated clothing.

If inhaled:

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

If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. FIRE-FIGHTING MEASURES

Flash point: > 93 °C

Flammability: not highly flammable

Self-ignition temperature: not self-igniting

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:

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Do not allow run-off from fire fighting to enter drains or water courses.

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.

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 AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALIPHATIC HYDROCARBON	Trade Secret	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA P0
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

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

Appearance	: viscous
Colour	: white
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 93.4 °C
Evaporation rate	: < 1 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Self-ignition	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: ca. 1
Density	: ca. 1.03 g/cm ³
Solubility(ies)	
Water solubility	: soluble

Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	< 4,000 mPa.s (20 °C)
Viscosity, kinematic	:	> 21 mm ² /s (40 °C) Based on a similar product formulation.
Oxidizing properties	:	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid extreme temperatures. Avoid freezing. Avoid all sources of ignition: heat, sparks, open-flame.

Substances to avoid:

Strong oxidizing agents, strong reducing agents

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions. The product is chemically stable.

Decomposition products:

Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x), Hydrocarbons

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Not fire-propagating

11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases

ALIPHATIC HYDROCARBON:

Acute oral toxicity	:	LD 50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC 50 (Rat, male and female): > 5.28 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

ALCOHOL ALKOXYLATES:

Acute oral toxicity : LD 50 (Rat): 1,380 mg/kg

Irritation / corrosion

Causes skin irritation. Causes serious eye irritation.

Product:

Result: Irritating to skin

Remarks: May cause skin irritation and/or dermatitis.

Components:

ALIPHATIC HYDROCARBON:

Result: Mildly irritating to skin

ALCOHOL ALKOXYLATES:

Result: Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes

Remarks: Causes serious eye irritation.

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

Causes serious eye irritation.

Components:

ALIPHATIC HYDROCARBON:

Result: Mildly irritating to eyes

ALCOHOL ALKOXYLATES:

Result: Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Product:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:**ALIPHATIC HYDROCARBON:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to fish	: LC 50 (Fathead minnow (<i>Pimephales promelas</i>)): 2.18 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: no LC 50 (<i>Danio rerio</i> (zebra fish)): > 1 - 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on a similar product formulation. LC50 (<i>Cyprinodon variegatus</i> (sheepshead minnow)): > 100 mg/l Exposure time: 96 h Method: EPA-821-R-02-012 GLP: no
Toxicity to daphnia and other aquatic invertebrates	: EC 50 (<i>Daphnia magna</i> (Water flea)): 0.31 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: no EC 50 (<i>Daphnia magna</i>): > 10 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on a similar product formulation. EC50 (<i>Mysidopsis bahia</i> (opossum shrimp)): 1.15 mg/l Exposure time: 48 h Method: EPA-821-R-02-012 GLP: no
Toxicity to fish (Chronic toxicity)	IC25 (<i>Pimephales promelas</i> (fathead minnow)): 5.22 mg/l End point: Growth rate Exposure time: 7 d Method: see user defined free text NOEC (<i>Pimephales promelas</i> (fathead minnow)): 2.72 mg/l End point: Growth rate Exposure time: 7 d Method: see user defined free text
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	IC25 (<i>Daphnia</i> (water flea)): 0.38 mg/l End point: Reproduction Test Exposure time: 7 d Method: see user defined free text NOEC (<i>Daphnia</i> (water flea)): 0.3 mg/l End point: Reproduction Test Exposure time: 7 d Method: see user defined free text
Toxicity to microorganisms	EC 50 (<i>Pseudomonas putida</i>): ca. > 10 mg/l

Exposure time: 48 h

Remarks: Information given is based on data on the components and then ecotoxicology of similar products

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:**ALIPHATIC HYDROCARBON:****Ecotoxicology Assessment**

Acute aquatic toxicity : No toxicity at the limit of solubility

Chronic aquatic toxicity : No toxicity at the limit of solubility

ALCOHOL ALKOXYLATES:Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l
Exposure time: 96 h
Test Type: static testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Test Type: static testToxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia (water flea)): 0.17 mg/l
Exposure time: 21 d**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability**Product:**Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand
383,000 mg/lChemical Oxygen Demand (COD) : 1,930,000 mg/l
Method: Chemical oxygen demand**Components:****ALCOHOL ALKOXYLATES:**

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential : No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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:

Dispose of in accordance with national, state and local regulations.

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**EPCRA - Emergency Planning and Community Right-to-Know Act**

SARA 311/312 Hazards : Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

DSL : q (quantity restricted)

AICS : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory
TCSI : Not in compliance with the inventory
TSCA : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

MSDS Prepared by: JRD

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