



M.S.D.S

MATERIAL SAFETY DATA SHEET

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Product Name: Firelce[®]

Section I Company Information

GelTech Solutions, Inc.
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Section II Hazardous Ingredients / Identity Information

Hazardous Components Specific chemical identity: Common name(s)	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Manufacturer's recommended exposure guideline for respirable particulate	—	—	0.05mg/m ³	—

Product Identification

Chemical Name	CAS Number	%
Proprietary Ingredient	31212-13-2	92 to 98
Water	7732-18-5	2 to 8

Component Information/Information on Non-Hazardous Components: The components of this product are not regulated as hazardous under 29 CFR and 49 CFR. All components are listed in TSCA CFR 40 700.

NFPA/HMIS Health – 1, Fire – 0, Reactivity – 0, Specific Hazard – None

Dot Class Not Regulated

Section III Physical / Chemical Characteristics

Boiling Point (in solution)225°F (107°C)	Bulk Density (apparent – g/cc):0.5
Vapor Pressure (mm Hg.).....Not applicable	Melting Point.....Not applicable
Vapor Density (AIR =1)Not applicable	Evaporation Rate (Butyl Acetate = 1)Not applicable
Appearance and OdorOff white, odorless	Freezing Point (in solution)26°F (-3°C)

Product Name: Firelce®

Section VI Health Hazard Data

Route(s) of EntryInhalation? **Yes** Skin? **Yes** Ingestion? **Yes**

Acute contact with the eyes is minimally irritating as concentrate and non-irritating as a mixed fire chemical. Acute contact with the skin is non-irritating as concentrate and slightly irritating as a mixed fire chemical.

Care must be taken to minimize exposure and prevent workplace inhalation of concentrated respirable dust. Personal Protective Equipment (PPE) is recommended for eye and inhalation exposure when handling this product. (A similar product, ground very finely, produced an inflammatory tissue response in the lungs in a lifetime exposure inhalation in laboratory testing).

According to the United States Forest Service Specification 5100-306A, this product meets the Specification and is considered to be non-toxic to mammals.

Acute Oral Toxicity: LD50 >505 mg/Kg (Concentrate), LD50>5050 mg/Kg (Mixed Fire Chemical)

Acute Dermal Toxicity: LD50 > 2020 mg/Kg (Concentrate), LD50>2020 mg/Kg (Mixed Fire Chemical)

Primary Dermal Irritation: Concentrate is non-irritating (Score: 0.0, Toxicity Category IV),
Mixed Fire Chemical is slightly irritating (Score: 0.3, Toxicity Category IV)

Primary Eye Irritation: Concentrate is minimally irritating (Score: 2.0, Toxicity Category IV),
Mixed Fire Chemical is non-irritating (Score: 0.0, Toxicity Category IV)

Above testing results as reported by the United States Forest Service and is a summary of Mammalian Toxicity Testing of Firelce® Water Enhancer. Firelce® is compliant with the United States Forest Service Specification 5100-306A and all results are acceptable to the USFS.

Fish Toxicity test results in accordance with USDA Forest Service Specification 5100-306A are as follows and all results are acceptable to the USFS: OPPTS 850.1075 on rainbow trout (approximately 60-days post hatch) in ASTM soft water. Requirement 96-hr LC50 must be ≥10 mg/L.

Result: Firelce® Fire Chemical is LC50 = 348 mg/L

Product Name: Firelce®

Section VII Precautions For Safe Handling And Use

Steps to be taken in case material is released or spilled: Vacuum (using HEPA filter equipped system) if possible to avoid generating airborne dust. Avoid adding water, the product will become slippery when wet.

Waste Disposal Method: Dispose of in accordance with federal, state and local regulations.

Precautions to be taken in Handling and Storing: Store in a cool, dry place. Avoid breathing powder. Avoid skin and eye contact.

Other Precautions: Slippery when wet.

Section VIII Control Measures

Respiratory Protection (specific type)Use NIOSH/MSHA approved or equivalent with high efficiency filter for particulate levels above 0.05mg/m³

VentilationLocal ExhaustAs appropriate to control airborne dust levels below the applicable exposure limits
 Mechanical (general).....As appropriate
 OtherNone

Protective Gloves.....Impervious/rubber (only necessary during mixing process)

Eye ProtectionSafety goggles (only necessary during mixing process)

Other Protective ClothingNone

Work/Hygienic PracticesUse good housekeeping practices

The information has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, GelTech Solutions® cannot give guarantees regarding information from other sources, and expressly do not make any warranties, nor assume any liability for its use.