

SAFETY DATA SHEET

GROWMARK, INC.

Updated: September 5, 2014

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FS Optique™
Manufactured for:	Growmark, Inc. 1701 Towanda Ave. Bloomington, IL 61701
Product Use:	Activator
CAS Number:	Proprietary
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(800) 323-8351

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin Irritation, Category 2, H315

Eye Irritation, Category 2B, H320



H315

Signal Word: Warning

Hazard Statements:

H315: Causes skin irritation.

H320: Causes eye irritation.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash protective equipment and work clothes thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

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.

P321: Treat Symptomatically.

P332+P313: If skin irritation occurs: Get medical advice or attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Weight %</u>
Fatty acids, C16-18 and C18-unsaturated, methyl esters	67762-38-3	70-90%
Nonionic surfactant	Proprietary	5-15%
Butyl cellosolve	111-76-2	<3%

4. FIRST AID MEASURES

IF SWALLOWED: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any fluids to an unconscious person.

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- IF ON SKIN: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention. Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Take off contaminated clothing and wash it before reuse. Treat Symptomatically.
- IF INHALED: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER/doctor or Chemtrec if person feels unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.
- Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray, dry chemical, foam or CO₂.

Hazardous Decomposition Products of Combustion: Carbon oxides and other substances..

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep containers cool. Water or foam may cause frothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Wear NIOSH approved respirator and protective equipment as referenced in Section 8. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly. This product is classified as oil under Section 311 of the Clean Water Act. Discharge to surface waters that cause sheen must be reported to the National Response Center (800-424-8802).

Disposal: Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Keep away from heat, sparks and flame. Keep container closed. Wear appropriate equipment and clothing to prevent eye contact and repeated or prolonged skin contact as referenced in Section 8. Use in areas with adequate mechanical exhaust ventilation, or wear respirator. Protect product from freezing. If product freezes, warm to room temperature and agitate before use. Keep containers sealed when not in use. Store in original container only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: None

Eye/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear chemical-resistant gloves, long-sleeved shirt, long pants, socks and shoes to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product. When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	Amber liquid	UEL:	N/D
Odor:	Characteristic odor	LEL:	N/D
Odor Threshold:	N/A	Vapor Pressure:	N/D
pH:	7.0	Vapor Density:	N/D
Melting Point:	N/A	Relative Density:	7.49 lbs/gallon
Freezing Point:	N/D	Solubility:	Emulsifiable
Boiling Point:	N/D	Partition Coefficient:	N/D
Flash Point:	350°F	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	Noncombustible		

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Freezing or other extreme temperatures.
Incompatible Materials:	Strong oxidants such as liquid chlorine, sodium hypochlorite (explosion hazard).
Hazardous Decomposition Products:	Carbon oxides and other substances.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD ₅₀ > 5,000 mg/kg (albino rats)
Acute Eye Irritation:	Minimally irritating (albino rabbits)
Acute Dermal Irritation:	Slightly irritating (albino rabbits)
Acute Dermal Toxicity:	LD ₅₀ > 5,050 mg/kg (albino rats)
Acute Inhalation:	N/D
Component Carcinogenicity:	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

12. ECOLOGICAL INFORMATION

General Product Information

No information available for the product.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Fatty acids, C16-18 and C18-unsaturated, methyl esters (67762-38-3)

Test & Species

48 Hr LC₅₀ *Leuciscus idus* 5,500 mg/L [static]

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers:	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions:	Recycle or rework material if at all possible. Incinerate material at an approved facility. Treat at an acceptable waste treatment facility or municipal waste treatment plant after proper testing and approval of waste samples in compliance with applicable federal, state and local environmental regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Container Reuse:	An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail):	Not Regulated
IATA Status (Air):	Not Regulated

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Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

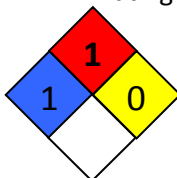
SARA HAZARD: No

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

NFPA Rating



Date Prepared: October 29, 2013

Last Updated: September 5, 2014

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, GROWMARK, INC. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.