SAFETY DATA SHEET

GROWMARK, INC.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**FS Talyx™**
Manufactured for:	Growmark, Inc. 1701 Towanda Ave. Bloomington, IL 61701
Product Use:	Adjuvant
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:
Skin Irritation, Category 2, H315
Eye Irritation, Category 2A, H319

H315, H319
Signal Word: Warning
Hazard Statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
Precautionary Statements:
Prevention
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, and eye protection.
Response
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.
P321: Treat Symptomatically.
P332+P313: If skin irritation occurs: Get medical advice or attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Classification	Weight %
Proprietary surfactant		Acute Tox. 4; H302	≥ 30 - < 50
Proprietary organic acid		Skin Irrit. 2; H315 Eye Dam. 1; H318	≥ 1 - < 5

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 anything to an unconscious person.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor or Chemtrec if you person feels unwell. If skin irritation occurs: Get medical advice or attention. Treat Symptomatically. Take off contaminated clothing and wash it before reuse.

IF INHALED: Cal 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.

IN CASE OF FIRE: Use dry chemical, water spray, fog or foam to extinguish.

IN CASE OF SPILL: Collect spillage.

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

Product may be combustible at high temperatures.

Suitable Extinguishing media: Small fire: use dry chemical powder. Large fire: use water spray, fog or foam. Do not use water jet.

Specific Hazards: Burning may produce oxides of carbon and other substances.

PPE and Precautions: Wear full protective clothing including self-contained breathing apparatus to protect against possible toxic fumes from products and surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Stop the flow of material, if this is without risk. Isolate area. Keep unnecessary personnel away.
Small Spill and Leak: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak: Keep away from heat. Keep away from ignition sources. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and evacuate through sanitary system.

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. Use only with adequate ventilation. To avoid fire minimize ignition sources. Store in well ventilated place. Keep containers sealed when not in use. Store in original container only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:	N/D
Eye/Face Protections:	Wear protective eyewear (goggles or face shield). Contact lenses should not be worn when working with chemicals.
Skin Protection:	Wear chemical-resistant gloves, coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear and socks 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.
General Protection:	Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.
Note:	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

Appearance:	Amber liquid	UEL:	N/D
Odor:	Bland odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	Neutral (1% water solution)	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lbs/gl):	8.73 ± 0.13
Freezing Point:	N/D	Solubility:	Dispersible in water
Boiling Point:	>100°C (212°F)	Partition Coefficient:	N/D
Flash Point:	>93°C (199.4°F) (PMCC)	Autoignition Temperature:	>150°C (302°F)
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	Combustible		

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Excessive heat.
Incompatible Materials:	Reactive with oxidizing agents and acids.
Hazardous Decomposition Products:	Burning may produce oxides of carbon and other substances.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD_{50} > 2,660 mg/kg (albino rats)
Acute Eye Irritation:	Extremely 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

A: General Product Information

The following data is based on similar material: Zebrafish LC_{50} (96hour): 0.55 mg/l, 1.34 mg/l, 2.21 mg/l, 0.32 mg/l, 1 mg/l
Biodegradability: 13% @ 28 days; 52% @ 269 days CBT based on data for similar material

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

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 waste samples in compliance with applicable federal, state and local environmental regulations.
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. Dispose of container in accordance with applicable federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): Not Regulated
IATA Status (Air): Not Regulated
Marine Pollutant: No

15. REGULATORY INFORMATION

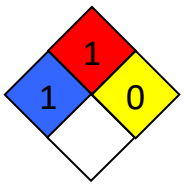
TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.
SARA HAZARD: No

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



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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.