



Material Safety Data Sheet

Material Name: KIXYT™ - High Surfactant MSO Concentrate

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Precision Laboratories
1429 S. Shields Drive
Waukegan, IL 60085

Phone: 847-596-3001

Emergency # 800-424-9300 CHEMTREC

*** Section 2 - Hazards Identification ***

Emergency Overview

May cause eye, skin and respiratory tract irritation.

Potential Health Effects: Eyes

Prolonged contact may cause irritation or injury.

Potential Health Effects: Skin

May cause irritation.

Potential Health Effects: Ingestion

May cause nausea, vomiting, CNS depression, pneumonitis or pulmonary edema.

Potential Health Effects: Inhalation

Aspiration during vomiting may cause lung injury.

HMIS Ratings: Health: 1 Fire: 1 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
67762-38-3	Fatty acids, C16-18 and C18-unsaturated, methyl esters	50-75
Trade Secret	Nonionic/anionic surfactant	25-50

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes, holding eyelids open. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash affected areas with large amounts of soap and water. If irritation persists seek medical attention.

First Aid: Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give fluids or force vomiting if the person is unconscious, is having convulsions or has no gag reflex. Aspiration into lungs may occur during ingestion or vomiting, resulting in lung injury. Seek immediate medical attention.

First Aid: Inhalation

Move individual to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

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*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.
Noncombustible.

Hazardous Combustion Products

Burning may produce oxides of carbon and sulfur, aldehydes and other substances.

Extinguishing Media

Water spray (fog), dry chemical, CO2 or foam may be used where product is stored.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

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. Large spills may be flushed to sewer if local authorities approve such. Product is slippery under foot; flush smooth surfaces thoroughly. See Section 13 for disposal considerations.

Evacuation Procedures

Evacuate the spill area, except for cleanup personnel.

Special Procedures

This product is classified as an oil under Section 311 of the Clean Water Act. Discharge to surface waters that cause a sheen must be reported to the National Response Center (800-424-8802).

*** Section 7 - Handling and Storage ***

Handling Procedures

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate mechanical exhaust ventilation. To avoid fire minimize ignition sources.

Storage Procedures

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.

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*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

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.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Personal Protective Equipment: Skin

Wear chemical-resistant gloves, long-sleeved shirt, 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.

Personal Protective Equipment: Respiratory

Not required under normal use conditions with good ventilation. Protect against spray mists

Personal Protective Equipment: General

Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Amber colored, oily

Physical State: Liquid

Vapor Pressure: ND

Boiling Point: 250°F

Solubility (H2O): Emulsifiable

Evaporation Rate: ND

Octanol/H2O Coeff.: ND

Flash Point Method: ND

Lower Flammability Limit ND

(LFL):

Auto Ignition: ND

Odor: Characteristic

pH: ND

Vapor Density: ND

Melting Point: ND

Specific Gravity: ND

VOC: ND

Flash Point: >200°F

Upper Flammability Limit ND

(UFL):

Burning Rate: ND

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Freezing or other extreme temperatures.

Incompatibility

Strong oxidants such as liquid chlorine, sodium hypochlorite (explosion hazard).

Hazardous Decomposition

Burning may produce oxides of carbon and sulfur, aldehydes and other substances.

Possibility of Hazardous Reactions

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

Acute Eye: Minimal effects clearing in less than 24 hours. No "positive" effect at 24 hours.

Acute Dermal: Non-irritating, mild or slight irritation at 72 hours.

B: Component Analysis - LD50/LC50

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

Oral LD50 Rat >2000 mg/kg

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

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

Test & Species

48 Hr LC50 Leuciscus idus

Conditions

5500 mg/L [static]

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

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. Container Reuse: Do not reuse empty container as it may contain product residue. Rinse container thoroughly prior to disposal. Dispose of rinsate and container in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

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*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Fatty acids, C16-18 and C18-unsaturated, methyl esters	67762-38-3	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

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

Key/Legend

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.

End of Sheet