

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Protix™ - Activator Adjuvant for Fungicides**
Supplier: PRECISION LABORATORIES, LLC
1429 S. SHIELDS DRIVE
WAUKEGAN, IL 60085

Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300
For MSDS, Product Safety, or Regulatory inquiries, call: (847) 596-3001
Customer Service, call: (800) 323-6280

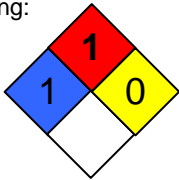
2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% By Wt.</u>
Proprietary Surfactant 1	Trade Secret			45–55
Proprietary Surfactant 2	Trade Secret			40–50
Organic Acid	Trade Secret			2–5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

NFPA Hazard Rating:



HMIS Hazard Rating:

1 Health
1 Fire
0 HMIS Reactivity

WARNING!

VERY TOXIC TO AQUATIC ORGANISMS
MAY BE HARMFUL IF SWALLOWED
COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FIRE.
MAY BE HARMFUL TO THE ENVIRONMENT IF RELEASED IN
LARGE QUANTITIES.

Primary Routes of Exposure:

Eyes: **Yes**

Skin: **Yes**

Oral: **No**

Inhalation: **Yes**

Signs and Symptoms of Exposure:

Eye contact: Prolonged and repeated contact of concentrated product will cause irritation and reddening.
Skin contact: Prolonged or repeated skin contact can also result in irritation.
Inhalation: May result in respiratory irritation.
Ingestion: May result in nausea, abdominal discomfort, vomiting and mucosal irritation.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE

Eye Exposure: Hold eyes open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin Exposure: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center for doctor treatment advice.

Inhalation: Move individual to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. 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.

5. FIRE-FIGHTING MEASURES

FIRE HAZARD DATA: **Product is combustible at high temperatures.**

Flammability: Combustible. **LEL:** N/D **UEL:** N/D

Auto-ignition temperature: >150°C (302°F) for Proprietary Surfactant 1 **Flash Point:** 93°C (199.4°F) (PMCC)

Hazardous Decomposition Products of Combustion: Burning may produce oxides of carbon and other substances.

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

Special Fire Fighting Procedures: Wear full protective clothing including self-contained breathing apparatus to protect against possible toxic fumes from products and surrounding fire.

Additional Fire and Explosive Data: None.

MATERIAL SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

Product Name: PROTYX - Activator Adjuvant for Fungicides

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures:	Stop the flow of material, if this is without risk.
Clean-Up Procedures:	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.
Evacuation Procedures:	Isolate area. Keep unnecessary personnel away.
Special Procedures:	None.

7. HANDLING AND STORAGE

Handling Procedures:	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire minimize ignition sources.
Storage Procedures:	This product does not require heated storage. Keep containers sealed when not in use. Store in original container only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:	ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.
Engineering Controls:	Use general ventilation.
Eye/Face Protection:	Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.
Skin Protection:	Wear long-sleeved shirt and short pants, socks, chemical-resistant footwear and barrier laminate, neoprene rubber, nitrile rubber or Viton® gloves 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:	Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk or the work area per ANSI recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance & Odor:	Amber liquid with bland odor.
Boiling Point:	>100°C (212°F)
pH:	Neutral (1% water solution).
Specific Gravity:	8.76 lb./gal.
Solubility in Water:	Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Incompatibility:	Reactive with oxidizing agents and acids.
Hazardous Decomposition Products:	Burning may produce oxides of carbon and other substances.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Excessive heat.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 > 2,660 mg/kg (albino rats)
Acute Eye Irritation:	Extremely irritating (albino rabbits)
Acute Dermal Irritation:	Slightly irritating (albino rabbits)
Acute Dermal Toxicity:	LD50 > 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.

MATERIAL SAFETY DATA SHEET

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Updated: April 29, 2013

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12. ECOLOGICAL INFORMATION

Ecotoxicity: A: General Product Information
The following data is based on similar material: Zebrafish LC50 (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: 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.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): Not regulated.
IATA Status (Air): N/D

15. REGULATORY INFORMATION

SARA HAZARD: None of this products 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: None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.
WHMIS: No components are listed in the WHMIS IDL.

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC 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.