

MATERIAL SAFETY DATA SHEET
PRECISION LABORATORIES, INC.



Updated: October 11, 2011
Page 1 of 3

Product Name: FS INFIX™ - Water Conditioner / pH Adjuster for Glyphosate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FS INFIX™ - Water Conditioner / pH Adjuster for Glyphosate**
Manufactured by: PRECISION LABORATORIES, INC.
1429 S. SHIELDS DRIVE
WAUKEGAN, IL 60085

Emergency telephone number: (Chemtrec Information 24 hours) 1-800-424-9300
For MSDS, Product Safety, or (Technical Support on Product) 1-800-323-6280
Regulatory inquiries, call:

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	OSHA PEL	ACGIH TLV	% By Wt.
Butanol	71-36-3			<5%
MCDS Buffer Blend	21351-39-3			>90%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HMIS Hazard Rating:
2 Health Hazard Rating
0 Flammability Rating
2 Reactivity Rating
X Personal Protection

Primary Routes of Exposure:

Eyes: **YES** Skin: **YES** Oral: **YES** Inhalation: **YES**

Signs and Symptoms of Exposure:

Eye contact: Contact with eyes may result in severe irritation: permanent injury may result.
Skin contact: Contact with the skin may result in severe burns and may cause dermatitis. Skin contact may aggravate an existing dermatitis condition.
Inhalation: May cause irritation and burning to the upper respiratory tract.
Ingestion: Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause severe burns and severe pulmonary injury and into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE

IF POISONING IS SUSPECTED, or any symptoms are serious, immediately contact the poison information center, doctor or nearest hospital. Tell the person contacted the complete product name and the type and amount of exposure. Describe any symptoms and follow the advice given.

Eye Exposure: Flush eyes with plenty of clean water, holding eyelids apart for at least 15 minutes. Do not permit victim to rub eyes. Obtain medical attention immediately.

Skin Exposure: Immediately flush skin with plenty of water while removing contaminated clothing. Obtain medical attention immediately. Wash contaminated clothing before reuse.

Inhalation: Inhalation: Immediately move the victim to fresh air. If victim has stopped breathing give artificial respiration. Keep at rest. Call for prompt medical attention.

Ingestion: Do not induce vomiting. If victim is fully conscious, immediately give a large amount of water to drink. Never give anything by mouth to a victim who is unconscious or having convulsions. Apply artificial respiration if necessary. Call a doctor or poison control center immediately.

Product Name: FS INFIX™ - Water Conditioner / pH Adjuster for Glyphosate

5. FIRE-FIGHTING MEASURES

FIRE HAZARD DATA:

Flammability:	Not flammable.	LEL:	N/A	UEL:	N/A
Auto-ignition temperature:	N/A				
Flash Point:	Not combustible.				
Hazardous combustion products:	Thermal decomposition may produce oxides of carbon, nitrogen and sulfur.				
Extinguishing Media:	Use water spray preferable in the form of a fog, dry chemical, foam or carbon dioxide. Avoid excessive water. If a spill or leak has not ignited use water spray to disperse the vapors. Use of buildings, area and equipment is to be prevented until properly decontaminated.				
Sensitivity to explosion by mechanical impact:	No.				
Sensitivity to explosion by static discharge:	No.				

6. ACCIDENTAL RELEASE MEASURES

Procedures for dealing with release or spill: Corrosive liquid. Stop leak and clean up spills immediately, wearing protective clothing.

In case of a major spill: Isolate and barricade area and keep bystanders away. Contact local government for advice.

For small spills: Stop leak, isolate area and contain spill keeping out of sewers and drains by diking. A Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, appropriately. Rinse area with water and soak up with absorbent. Sweep and shovel up into a disposable container.

7. HANDLING AND STORAGE

Precautions to be taken in handling: Keep out of reach of children, unauthorized persons and animals. Avoid eye contact and prolonged skin contact. Avoid inhalation of mists. Wear protective clothing and after work, remove protective equipment and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled material immediately, and clean clothes, equipment, and work area after use.

Precautions to be taken in storage: Store in original container only in a well-ventilated, cool, dry, and secure area. Keep separate from other products to prevent cross contamination. Clean up any spilled material immediately. Will corrode incompatible metals. Polyethylene, polypropylene or 316L stainless steel are acceptable materials of construction.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Application control measures, including engineering controls: Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

Personal protective equipment for each exposure route:

Eye protection: Wear safety glasses with side shields, goggles or face shield when direct exposure to product. Contact lenses should not be worn when working with chemicals.

Skin protection: Wear full-length work clothing, enclosed boots, and a hat. Wear chemical resistant gloves and an apron if direct contact with the product or spray mix is likely.

Workplace exposure guidelines: Follow OSHA 29 CFR 1910.134 requirements whenever workplace conditions warrant use of a respirator.

Other protection: Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk or the work area per ANSI Z358.1-1990. Personal Protection in Case of Large Spill: Splash goggles. Full suit. Boots, Gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance & Odor:	Clear peachy orange colored liquid. Very slight pleasant odor.
pH:	(0.5% dispersion in water) 1.5 to 2.0.
Density:	10.96 lb./gal. @ 20C
Solubility in Water:	Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Incompatibility:	Bases, strong oxidizing and reducing agents many metals (aluminum).
Hazardous Decomposition Products:	Decomposition may produce oxides of carbon, nitrogen and toxic phosphorous compounds.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None.

11. TOXICOLOGICAL INFORMATION

This product will irritate human eyes severely following contact. Frequent or prolonged contact with human skin will burn the skin or possibly cause skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Product Name: FS INFIX™ - Water Conditioner / pH Adjuster for Glyphosate

12. ECOLOGICAL INFORMATION

No ecological data is available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Waste disposal information: Do not reuse containers. Consult state/ provincial environment ministry for advice on waste disposal of empty containers. All recovered material must be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with Good Engineering Practices. Avoid land filling of liquids. Reclaim where possible. Be handled at licensed facilities only.

Container Reuse: An empty container can contain product residue, and should be not reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse.

14. TRANSPORT INFORMATION

Shipping information such as shipping classification: Ship and store away from food, feed, seed, cosmetics and medical supplies. Corrosive liquid NOS, UNI1760, 8, PG III (contains: Monocarbamide dihydrogen sulfate). TDG Class 8.

Bill of Lading Description: NOT REGULATED if shipped or packaged in containers such as stainless steel or plastic containers which do not react dangerously with this material. (49 CFR 173.154) (DOT Spec: MC 306 SS or Better). DOT regulated CORROSIVE LIQUID NOS if transported in aluminum, copper, zinc or mild steel containers.

15. REGULATORY INFORMATION

This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

SARA 311/312 HAZARD CATEGORIES: Acute, corrosive.

SARA 313 COMPONENTS 40 CFR 372.65

SECTION 313 COMPONENT(S)	CAS#	OSHA PEL	ACGIH TLV	% By Wt.
SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:				
Ethylene Oxide	75-21-8			<0.0001%
CERCLA HAZARDOUS SUBSTANCES:				
Phosphoric Acid	7664-38-2			<0.0001%
Monocarbamide dihydrogen sulfate	21351-39-3			>50%
Ethylene Oxide	75-21-8			<0.0001%
Acetaldehyde	75-07-0			<0.0001%
MCDS Buffer Blend	21351-39-3			

Ingredients present, which are on the OSHA Hazard List at, or above, the minimum concentration specified on the list. 29 CFR 1910.1200

Ingredients with known toxicological properties: None.

Ingredients the supplier believes may be harmful: None.

Generic chemical identity and Registry Number for trade secret ingredients registered under the Hazardous Materials Information Review Commission: None.

Ingredient concentration in units of wt./wt., vol./vol. or wt./vol. expressed as: 1) actual concentration, or 2) a range as fertilizer, water conditioner, buffer blend 100%.

Exposure limits for ingredients: Recommend following ACGIH TLVs for acids; 8 hour TWA: 1 mg/m³ and 15 minute STEL: 3 mg/m³.

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.