



# Material Safety Data Sheet

## United Phosphorus, Inc.

NFPA	PPE	
		

Issued Date 19-Apr-2007

Revision Date 17-Feb-2010

Revision Number: 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

**UPI**  
 630 Freedom Business Center  
 Suite 402  
 King of Prussia, PA 19406

**Emergency Telephone Number**  
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
 Medical: Rocky Mountain Poison Control Center  
 (866) 673-6671 (24hrs)

Company Information  
 UPI

Contact Information  
 Customer Service  
 R&D Technical Service

Phone Number  
 1-800-438-6071  
 610-878-6100

Available Hrs  
 8:00 am to 5:00 pm EST  
 8:00 am - 5:00 pm (EST)

**Product Name** Asulox Herbicide  
**EPA Reg #** 70506-139  
**Recommended Use** herbicide  
**Product Code** 12U-109

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Vapours may be irritating to eyes, nose, throat, and lungs  
 May be harmful if inhaled.  
 May cause eye and skin irritation  
 May cause allergic skin reaction

#### CAUTION

**Appearance** Brown.

**Physical State** Liquid.

**Odor** Odorless.

#### Potential Health Effects

- Inhalation
- Skin contact

**Eyes**  
**Skin**  
**Inhalation**  
**Ingestion**

Causes redness, irritation, tearing.  
 Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.  
 May cause irritation of respiratory tract.  
 Harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Asulam Technical	2302-17-2	35-37	N/A

## 4. FIRST AID MEASURES

#### Eye Contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.  
 Call a poison control center or doctor for treatment advice.

#### Skin Contact

Rinse skin immediately with plenty of water for 15-20 minutes.  
 If symptoms persist, call a physician

#### Inhalation

Move person to fresh air.  
 If person is not breathing, call 911 or an ambulance, then give artificial respiration.  
 Call a physician or Poison Control Centre immediately

#### Ingestion

Call a physician or Poison Control Center immediately  
 Have person sip a glass of water if able to swallow  
 Never give anything by mouth to an unconscious person  
 Do not induce vomiting unless told to do so by a poison control center or doctor

#### Notes to Physician

No information available  
 Treat symptomatically



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. .
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Use eye protection to avoid eye contact. . Goggles. Where there is potential for eye contact have eye flushing equipment available..
<b>Skin Protection</b>	Neoprene gloves. Nitrile rubber. Impervious butyl rubber gloves. Chemical resistant protective clothing.
<b>Respiratory Protection</b>	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. .

**General Hygiene Considerations**

Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Brown	<b>Odor</b>	Odorless
<b>Physical State</b>	Liquid	<b>pH</b>	approx.7.5
<b>Boiling Point/Range</b>	104°C	<b>Melting Point/Range</b>	-6°C
<b>Specific Gravity</b>	1.18 @ 20 C	<b>Solubility</b>	Soluble
<b>Evaporation Rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	253.24 g/mol
<b>Bulk Density</b>	10 lb/gal	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Freezing temperatures.
<b>Incompatible Materials</b>	Acids.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.
<b>Possibility of Hazardous Polymerization</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

**Asulox:**  
**Acute oral LD50:** >5,000 mg/kg (rat)  
**Acute dermal LD50:** >2,000 mg/kg (rabbit)  
**Acute inhalation LC50:** >5 mg/L 4 hr (rat)  
**Skin irritation:** Non-irritating (rabbit)  
**Eye irritation:** Slightly irritating (rabbit)

### Chronic Toxicity

There are no known carcinogenic chemicals in this product

### Carcinogenicity

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning equipment or disposal of waste. .

## 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. . Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water..

#### Contaminated Packaging

Empty containers may contain hazardous residues. Containers should be handled as instructed by following all container disposal directions .

## 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

14. TRANSPORT INFORMATION

**IMDG/IMO** Not regulated

15. REGULATORY INFORMATION

**International Inventories**

Asulam Technical  
**EINECS/ELINCS** Listed

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

<b>Chronic Health Hazard</b>	No
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CERCLA**

**RCRA**

**Pesticide Information**

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

**International Regulations**

**Mexico - Grade** Not available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Not determined

16. OTHER INFORMATION

**Revision Date** 17-Feb-2010

**Revision Summary**  
System check

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**End of MSDS**