



# Material Safety Data Sheet

## United Phosphorus, Inc.

<b>NFPA</b>	<b>PPE</b>		

Issued Date 20-Nov-2007

Revision Date 23-Dec-2010

Revision Number: 8

### 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** Stam 80 EDF Herbicide  
**EPA Reg #** 70506-166  
**Recommended Use** herbicide  
**Product Code** 12U-174

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May cause eye irritation and corneal injury.  
Toxic to aquatic organisms  
and birds  
Harmful if swallowed  
Harmful if absorbed through skin

### CAUTION

**Appearance** Tan.

**Physical State** Solid.

**Odor** Odorless.

### Potential Health Effects

**Eyes**

Moderately irritating to the eyes with possible corneal injury.

**Skin**

Prolonged or repeated contact may cause irritation, redness and rash..

**Inhalation**

Dust may cause irritation to upper respiratory tract. .

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Propanil	709-98-8	81	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.  
Call poison control center or doctor for treatment advice.

### Inhalation

Move person to fresh air.  
If person is not breathing, call 911 or an ambulance, then give artificial respiration.  
Call a poison control center or doctor for further treatment advice.

### 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**

Administer 100% oxygen to relieve headache and general sense of weakness. Determine methemoglobin concentration of blood every 3 to 6 hours for first 24 hours. It should return to normal within 24 hours. The treatment of toxic methemoglobinemia may include the intravenous administration of methylene blue. If methemoglobin >10-20% consider methylene blue 1-2 mg/kg body weight as 1% solution IV over 5 minutes followed by 15-30 cc flush. Also, provide 100% oxygen. Methemoglobinemia may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**5. FIRE-FIGHTING MEASURES**

**Flammable Explosive Properties**

**Flash Point** Not applicable  
**Autoignition Temperature** Not available

**Flammability Limits in Air** Not applicable

**Extinguishing Media** Carbon dioxide (CO2), Dry chemical Water spray Foam.

**Fire/Explosion Hazard** As this material is a granular/solid which may produce dust that may form flammable dust clouds in the air

**Hazardous Combustion Products** Can emit toxic fumes under fire conditions., Hydrogen chloride, chlorine.

**NFPA** Health 1 Flammability 0 Instability 0

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Avoid dust formation. Use personal protective equipment. Avoid contact with the skin and the eyes.

**Environmental Precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits..

**Methods for Clean-up** Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE**

**Handling** Keep out of reach of children. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Keep in a well-ventilated place.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. .

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Controls** 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. .

PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170..

**Personal Protective Equipment**

**Eye/face Protection**

Where there is potential for eye contact have eye flushing equipment available.. Use eye protection to avoid eye contact. .

**Skin Protection**

Wear protective gloves/clothing. Coveralls. Long sleeved clothing. Long pants. Chemical resistant gloves. waterproof gloves. Chemical resistant footwear plus socks.

**Respiratory Protection**

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>	Tan	<b>Odor</b>	Odorless
<b>Physical State</b>	Solid	<b>pH</b>	(aqueous solution)9
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	85°C / 185°F
<b>Specific Gravity</b>	0.55-0.62 g/cc	<b>Solubility</b>	Dispersible in water
<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>	No data available
<b>Bulk Density</b>	No data available	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions

**Conditions to Avoid** Heat, flames and sparks

**Incompatible Materials** No materials to be especially mentioned

**Hazardous Decomposition Products** None under normal use

**Possibility of Hazardous Polymerization** Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information**                      **stam 80 -**  
**Dermal LD50 (rat) = >2,000 mg/kg (for similar material)**  
**Oral LD50 (rat) = >3,000 mg/kg (for similar material)**  
**Inhalation LC50 (rat) = >6.0 mg/kg (for similar material)**

### Chronic Toxicity

**Carcinogenicity**                      **stam 80 -**  
Active ingredient (propanil) has caused cancer in laboratory animals.  
Does not cause birth defects in laboratory animals. Laboratory studies has shown toxicity to fetus as does non-toxic to the mother.  
Reproductive studies show reproductive effect.  
Mutagenic studies (in-vitro and animal genetic) studies were negative.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Propanil:  
Ecotoxicity- Highly toxic to aquatic organisms on an acute basis (LC50 or EC50 is <0.1 mg/L in the most sensitive species tested)  
Slightly toxic to birds (LC50 1001 - 5000 ppm) dietary study.  
Moderately toxic to birds on an acute basis (LD50 51-500 mg/kg) .

Degradation and Persistence- Based on information on the active ingredient. Degradation is expected in the soil environment within days to weeks. Under aerobic soil conditions the half-life is 1-3 days. Degradation is expected in the atmospheric environment within days to weeks.

Movement and Partitioning- Bioconcentration is between 100 and 3000. Potential mobility in soil is between 150 and 500 (Koc) and soil organic carbon/water partition coefficient is 188 g/mL..

## 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. .

**Contaminated Packaging**                      Non refillable container. Do not reuse this container. . Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. .

<b>14. TRANSPORT INFORMATION</b>
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**DOT** When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated.  
When shipped in bulk, by vessel, or internationally use the following shipping description:

**ICAO**

<b>UN-No</b>	UN3077
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s (Propanil)
<b>Hazard Class</b>	9
<b>Packing Group</b>	PG III

**IATA**

<b>UN-No</b>	UN3077
<b>Proper Shipping Name</b>	Environmentally hazardous substances, solid, n.o.s. (Propanil)
<b>Hazard Class</b>	9
<b>Packing Group</b>	PG III
<b>ERG Code</b>	9L

**IMDG/IMO**

<b>Proper Shipping Name</b>	Environmentally hazardous substances, solid, n.o.s. (Propanil)
<b>Hazard Class</b>	9
<b>UN-No</b>	UN3077
<b>Packing Group</b>	PG III
<b>EmS No.</b>	F-A,S-F
<b>Special Provisions</b>	274, 909, 944
<b>Marine Pollutant</b>	Yes

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Propanil	
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

**USA****Federal Regulations**

**SARA 313**  
Y

Chemical Name	CAS-No	Weight %
Propanil	709-98-8	81

**SARA 311/312 Hazardous Categorization**

## 12U-174 - Stam 80 EDF Herbicide

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Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propanil				Listed.	

### 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**

23-Dec-2010

#### **Revision Summary**

Update section 13 Update section 8 Update section 2

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**End of MSDS**