



# Material Safety Data Sheet

## United Phosphorus, Inc.

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

Issued Date 08-Feb-2007

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Revision Number: 6

### 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** Assail ® 70 WP Insecticide  
**EPA Reg #** 8033-23-70506  
**Recommended Use** insecticide  
**Product Code** 12-4581

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Product dust may be irritating to eyes, skin and respiratory system  
May form combustible dust-air mixtures.  
Harmful by inhalation, in contact with skin and if swallowed

#### CAUTION

**Appearance** off-white.

**Physical State** Powder.

**Odor** Odorless.

#### Potential Health Effects

- Inhalation
- Skin contact

**Eyes**

Contact with eyes may cause irritation.

**Skin**

Substance may cause slight skin irritation.

**Inhalation**

Irritating to respiratory system. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity..

**Ingestion**

May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Kaolin clay	1332-58-7	5-15	5 mg/m <sup>3</sup> Respirable fraction. 10 mg/m <sup>3</sup> Total dust.
Acetamiprid	135410-20-7	67-73	N/A
Silica gel	112926-00-8	7.1-7.9	6 mg/m <sup>3</sup>

## 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

Take off contaminated clothing.  
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  
Do not induce vomiting unless told to do so by a poison control center or doctor  
Never give anything by mouth to an unconscious person

Notes to Physician

No information available  
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point  
Autoignition Temperature

Not available  
Not available

Flammability Limits in Air

Not available

Extnguishing Media

Use: Water spray, Carbon dioxide (CO2), Foam, Dry chemical.

Fire/Explosion Hazard

Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables. NOTE: Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. As with any dry material, pouring this material or allowing it to free-fall or be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or any flammable materials which may come into contact with the material or its container. Do NOT use a solid stream of water. A solid stream of water can cause a dust explosion. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear(Full Bunker Gear) and self-contained breathing apparatus(pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Hazardous Combustion Products

No information available.

NFPA

Health 1

Flammability 1

Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin, eyes and clothing. Avoid dust formation. Take precautionary measures against static discharges.

Environmental Precautions

Do not flush into surface water or sanitary sewer system. 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

Remove all ignition sources. Sweep up and shovel into suitable containers for disposal. Use non-sparking tools . Keep in suitable and closed containers for disposal. Reduce dust spreading with water spray, collect rinsate..

7. HANDLING AND STORAGE

**7. HANDLING AND STORAGE**

**Handling** Avoid dust formation. Avoid breathing dust. Keep away from heat, sparks and open flame. - No smoking. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges. Check that all equipment is properly bonded and grounded..

**Storage** Outside or detached storage of preferable.. Avoid temperature extremes during storage.. Static electricity may accumulate when transferring material. All containers must be bonded and grounded during filling and emptying operations.. Do not allow prolonged storage in areas where temperatures frequently exceed 115 F (46 C) . NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE..

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines** Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Kaolin clay	2 mg/m <sup>3</sup> Respirable fraction.	5 mg/m <sup>3</sup> Respirable fraction. 10 mg/m <sup>3</sup> Total dust.
Silica gel		6 mg/m <sup>3</sup>

**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. . When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240 (d) (4-6) ], the handler PPE requirements may be reduced or modified as specified in the WPS..

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**

**Skin Protection**

**Respiratory Protection**

Avoid contact with eyes.

waterproof gloves. Long sleeved clothing. Long pants. Socks and footwear.

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 before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b>	off-white	<b>Odor</b>	Odorless
<b>Physical State</b>	Powder	<b>pH</b>	approx.9
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	98 °C
<b>Specific Gravity</b>	Not available	<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>	No data available
<b>Bulk Density</b>	13-17 lb/ft3	<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>	Avoid dust formation. Keep away from children. Keep away from open flames, hot surfaces and sources of ignition. Extreme temperatures.
<b>Incompatible Materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	No information available.
<b>Possibility of Hazardous Polymerization</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Product Information**                      Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,064 mg/kg), no more than slightly toxic if absorbed through skin (rabbit LD50>2,000mg/kg) or inhaled (rat 4-hr LC50 >2.99 mg/l), and slightly irritating to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure.

**Chronic Toxicity**

**Carcinogenicity**                              The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica gel		Group 3		

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treated area. .  
Toxic to wildlife.

**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. . Offer for recycling if available. .

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Kaolin clay	
DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
Acetamiprid	
ENCS	Listed
CHINA	Listed
KECL	Listed
Silica gel	
DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	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**  
**Chronic Health Hazard**

No

## 12-4581 - Assail ® 70 WP Insecticide

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 contains the following Proposition 65 chemicals:

### State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Kaolin clay	Listed.		Listed.	Listed.	Listed.
Silica gel	Listed.	Substance no. 1655 Listed.	Listed.		

### International Regulations

#### **Mexico - Grade**

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Kaolin clay			10 mg/m <sup>3</sup>
Silica gel			10 mg/m <sup>3</sup> Inhalable particulate. 3 mg/m <sup>3</sup> Respirable dust.

#### **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**

21-Dec-2010

#### **Revision Summary**

Update section 13 Update section 2 Update section 8

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**End of MSDS**