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ASSAIL 70WP INSECTICIDE  
GPA00215 Revised 5-MAY-2008 Printed 5-MAY-2008  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"DuPont" is a trademark of DuPont.

Tradenames and Synonyms (Remarks)

"ASSAIL" is a registered trademark of Nippon Soda Co., Ltd. and licensed for distribution by E. I. du Pont de Nemours and Company.

Company Identification

MANUFACTURER/DISTRIBUTOR

E.I. du Pont Canada Company  
P.O. Box 2200  
Streetsville  
Mississauga, Ontario L5M 2H3

PHONE NUMBERS

Product Information : 1-800-387-2122  
Medical Emergency : 1-800-441-3637 (24 hours)

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
ACETAMIPRID (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamide	135410-20-7	70.0 WT%
INERT INGREDIENTS INCLUDING		30 WT%
Amorphous Silicon Dioxide Hydrate (Amorphous Silica)	112926-00-8	
Hydrous Aluminum Silicate	1332-58-7	

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HAZARDS IDENTIFICATION  
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Emergency Overview

CAUTION! Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children and domestic animals.

## (HAZARDS IDENTIFICATION - Continued)

## Potential Health Effects

Eye contact with Assail may cause eye irritation. Prolonged contact may cause tearing, pain or blurred vision.

Skin contact with Assail may cause skin irritation. Prolonged contact may cause discomfort or rash and skin permeation may occur in amounts capable of producing the effects of systemic toxicity.

Inhalation may cause irritation of the upper respiratory passages. Prolonged contact may cause coughing and discomfort.

Inhalation of the product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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FIRST AID MEASURES  
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## First Aid

IF SWALLOWED: Immediately call poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is 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 treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day toll-free 1-800-441-3637. Have the product container or label with you when calling a poison control center or doctor, or going

## (FIRST AID MEASURES - Continued)

for treatment.

## Notes to Physicians

There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

Will form dust explosive mixtures in air.  
Dust explosive rating of ST-1 (KsT = 165 bar-meter per second).

Flash Point: Not Applicable

## Extinguishing Media

Dry chemical, alcohol foam, water spray, carbon dioxide (CO<sub>2</sub>).

## Fire Fighting Instructions

Firefighters should wear NIOSH/OSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind if possible. Keep out of low areas. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel. Wear self-contained breathing apparatus (SCBA) and full protective gear.

## (ACCIDENTAL RELEASE MEASURES - Continued)

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Evacuation Procedures and Safety: Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation. See Personal Protection Information Section.

## Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas. Dike spill with earth or sand. Follow applicable Federal, State/Provincial and Local laws/ regulations.

Containment of Spill: Stop leak if it can be done without risk. Follow procedure under Cleanup and Disposal of Spill.

## Spill Clean Up

Avoid causing dust. Shovel, vacuum or scoop up to a metal drum for disposal. If liquid, dike and allow to solidify or soak up with sand. All flushing and clean-up residuals should be collected for proper disposal to prevent soil and surface, ground and sewer water contamination. Do not allow to contaminate ground or surface water systems.

Cleanup and Disposal of Spill: Sweep up and place in an appropriate closed container. No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

## Accidental Release Measures

Environmental and Regulatory Reporting: Do not flush to drain. If spilled on the ground the affected area should be scraped clean and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

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HANDLING AND STORAGE  
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## Handling (Personnel)

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Avoid breathing dust. Wash thoroughly after handling.

## (HANDLING AND STORAGE - Continued)

## USERS SHOULD:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Handling (Physical Aspects)

THIS PRODUCT MAY PRESENT A DUST EXPLOSION HAZARD.

Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. Provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials to prevent ignition.

It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment.

## Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Keep away from heat, sparks and flames.

Do not store in or around the home. Store unused product in a cool, ventilated, dry locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

## Min/Max Storage Temperatures:

Min Temp: No data

Max Temp: 46°C

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

When handlers used 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.

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

## Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks.

## Exposure Guidelines

## Applicable Exposure Limits

Amorphous Silicon Dioxide Hydrate

PEL (OSHA) : 80 mg/m<sup>3</sup> / % SiO<sub>2</sub> - 8 Hr TWA

AEL \* (DuPont) : 3 mg/m<sup>3</sup>, 8 & 12 Hr. TWA, respirable dust

Hydrous Aluminum Silicate

## (Applicable Exposure Limits - Continued)

PEL (OSHA) : 15 mg/m<sup>3</sup>, total dust, 8 Hr. TWA  
5 mg/m<sup>3</sup>, respirable dust, 8 Hr. TWA  
TLV (ACGIH) : 2 mg/m<sup>3</sup>, respirable dust, 8 Hr. TWA, A4  
AEL \* (DuPont) : None Established

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Appearance	off-white powder
Physical State	solid
Odor	no odor determined
pH	8.5-9.5 at 1 wt/wt% dilution in water at 22°C
Vapor Density (air = 1)	not available
Density	13-17 lb/cu ft (loose)
Boiling Point	not available
Melting/Freezing Point	98°C approximately
Solubility (in water)	approximately 2.7 wt/wt%

Physical and chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in the Chemical Product/Company Identification Section for its exact specifications.

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STABILITY AND REACTIVITY  
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## Chemical Stability

This material is stable under normal handling and storage conditions as described in the Handling and Storage Section.

## Conditions to Avoid

None known

## (STABILITY AND REACTIVITY - Continued)

## Incompatibility with Other Materials

Strong bases  
Strong acids  
Strong oxidizing agents

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

Assail  
Oral LD50: 1064 mg/kg in rats  
Dermal LD50: >2000 mg/kg in rabbits  
Inhalation 4 hour LC50: 2.88 mg/L in rats

This material is a slight skin irritant, and a mild eye irritant, but is not a skin sensitizer in animal tests.

In long term animal feeding studies there was no evidence of carcinogenicity. Not considered a carcinogen or mutagen. In reproductive and developmental studies in animals, there was no effect on reproduction. Not considered a reproductive toxicant.

## Assessment Carcinogenicity

ACGIH  
Hydrous aluminum silicate 1332-58-7 Group A4

NTP  
None

IARC  
Amorphous silicon dioxide hydrate 112926-00-8  
(Amorphous silica)

OSHA  
None

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

AQUATIC TOXICITY:  
No information is available.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Do not contaminate water, food, or feed by disposal. Contamination with this product will render water, food, or feed unfit for human or animal consumption. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

## ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treated area. 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 contaminate water when disposing of equipment washwater or rinsate. Do not contaminate water used for irrigation or domestic purposes.

## Container Disposal

Do not reuse outer bag. Dispose of outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT/IMO  
Proper Shipping Name : NOT REGULATED

Not regulated for transportation per DOT regulations.

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

## (REGULATORY INFORMATION - Continued)

## US FEDERAL

EPA Registration No.: 8033-24-352

TSCA list : Hydrous Aluminum Silicate, 1332-58-7

TSCA 12b Export Notification: None

SARA Title III, Section 302, Notification and Information:  
NoneSARA Title III, Section 313, Toxic Chemical Release  
Reporting: None

## US States Regulatory

## CA PROP 65

This product does not contain any substances known to the  
State of California to cause cancer.This product does not contain any substances known to the  
State of California to cause reproductive harm.

## US State Right-to-Know Ingredients

Amorphous silicon dioxide hydrate  
(Amorphous silica) 112926-00-8 PA

Hydrous Aluminum Silicate 1332-58-7 IL, PA, RI

## Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

## International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances  
(EINECS)

None

## Canadian Regulations

Regulated under the Pest Control Products Act--WHMIS Exempt

Registration No. 27128 Pest Control Products Act

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

	Health	Flammability	Reactivity
HMIS	2	1	0
NFPA	2	1	0

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

## Responsibility for MSDS

----- Crop Protection E.I. du Pont Canada Company  
Box 2200, Streetsville  
Mississauga, Ontario L5M 2H3  
(905) 821-3300.

End of MSDS