



Cerexagri-Nisso LLC

Assail(R) 70 WP Insecticide

Material Safety Data Sheet

Cerexagri-Nisso LLC

1 PRODUCT AND COMPANY IDENTIFICATION

Pre-Harvest Division

Cerexagri-Nisso LLC
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
R&D Technical Service	610-878-6100	8:00am to 5:00pm EST
Customer Service	1-800-438-6071	8:00am - 5:00 pm EST

Product Name Assail(R) 70 WP Insecticide
Product Synonym(s)

Chemical Family Nicotinoid
Chemical Formula C10 H11 Cl N4
Chemical Name Acetamiprid, (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamide
EPA Reg Num 8033-23-82695
Product Use Insecticide

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Acetamiprid	135410-20-7	67-73	Y
Kaolin	1332-58-7	5.0-15.0	Y
Silica gel	112926-00-8	7.1-7.9	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

3 HAZARDS IDENTIFICATION

Emergency Overview

Off-white powder. No odor determined

CAUTION!

KEEP OUT OF REACH OF CHILDREN.

MAY FORM COMBUSTIBLE DUST-AIR MIXTURES. MAY CAUSE EYE AND SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Potential Health Effects

Data on this material and/or its components are summarized below.

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be slightly toxic if swallowed, no more than slightly toxic if absorbed through skin or inhaled, and slightly irritating to eyes and skin. Inhalation may be irritating to the respiratory tract and may reduce lung function. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity.

Kaolin

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be practically non-toxic if swallowed. Direct contact with dust may cause slight eye and skin irritation. Overexposure to dust may cause upper respiratory tract irritation. Long-term



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inhalation of kaolin clay dusts may impair lung function.

Silica gel

Skin contact and inhalation are expected to be the primary routes of occupational exposure to this material. Inhalation of dust of this material can cause drying of mucous membranes of the eyes, nose and throat (due to absorption of moisture and oils) which may result in irritation and occasional nosebleeds. Repeated exposure to this material has not been reported to have significant adverse health effects in workers; however, persons with breathing problems or lung disease may be less tolerant of any inhaled foreign material.

4 FIRST AID MEASURES

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.

IN CASE OF CONTACT,

- 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 SWALLOWED,

- Call a poison control center or doctor immediately for treatment advice.
- 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.
- Do not give anything by mouth to an unconscious person.

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 further treatment advice.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	Not Applicable	
Flash Point	Not Applicable	Flash Point Method
Flammable Limits- Upper		
Lower		

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

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. Person 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.

Fire and Explosion Hazards

Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion



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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.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Absorb, sweep up, place in container for disposal. Reduce dust spreading with a water spray. Shut off or remove all ignition sources. Prevent waterway contamination. Construct a dike to prevent spreading. Protect workers with water spray. Collect run-off water and transfer to drums or tanks for later disposal. Avoid creating a dusty atmosphere. 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.

Clean up procedures: Transfer to containers, preparatory for later disposal. Avoid generation of dusts. Place in non-sparking containers for recovery or disposal. Remove from spill location. Flush area with water spray, collect rinsate.

7 HANDLING AND STORAGE

Handling

Avoid breathing dust. Use explosion proof equipment. Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. Do not cut, grind or weld on or near containers - explosion hazard. Use grounding and bonding connection when transferring material to prevent static discharges, fire or explosion. Keep container tightly closed; flush container clean before discarding. Do not reuse container. Empty container may contain hazardous residue. Prevent dust accumulation. Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift on to non-target areas. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions.

Storage

Outside or detached storage is preferable. Avoid temperature extremes during storage; ambient temperature preferred. Store in a well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly grounded and installed to satisfy electrical classification requirements. Static electricity may accumulate when transferring material. All storage containers, including drums, cylinders and IBCs, must be bonded and grounded during filling and emptying operations.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. 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.

Eye / Face Protection

Use good industrial practice to avoid eye contact.



8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection

Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. 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 exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value
Silica gel		
ACGIH TWA	-	10 mg/m3
Kaolin		
ACGIH TWA	-Respirable fraction	2 mg/m3
OSHA TWA PEL	-Total dust	15 mg/m3
OSHA TWA PEL	-Respirable fraction	5 mg/m3

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Off-white powder. No odor determined
pH	8.5-9.5 (1% solution)
Specific Gravity	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Melting Point	98 C (approx)
Freezing Point	N/A
Boiling Point	N/A
Solubility In Water	2.95 g/L @ pH 7
Bulk Density	13 -17 lb/ ft3



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10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

Strong bases, strong acids, strong oxidizing agents

Hazardous Decomposition Products

None known

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Assail

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 >2,000 mg/kg) or inhaled (rat 4-hr LC50 >2.88 mg/l), and slightly irritating to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. Long-term oral studies in animals showed no evidence of carcinogenicity.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Kaolin

This material is generally non-toxic to aquatic organisms. It is not water soluble but can be suspended in water. It was tested for aquatic toxicity with a variety of aquatic organisms and the lowest LC50 was 3,000 mg/l.

Assail

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

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.



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14 TRANSPORT INFORMATION

DOT Name NOT REGULATED
 DOT Technical Name
 DOT Hazard Class
 UN Number
 DOT Packing Group PG
 RQ

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

Ingredient Related Regulatory Information:

SARA Reportable Quantities

	CERCLA RQ	SARA TPQ
Silica gel	NE	
Kaolin	NE	
Acetamiprid	NE	NE

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

- Kaolin
- Silica gel

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

- Kaolin
- Silica gel

16 OTHER INFORMATION

Revision Information

Revision Date 05 JAN 2006 Revision Number 8
 Supercedes Revision Dated 03-JAN-2006

Revision Summary

Update section 1

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Miscellaneous

Assail (R) is a registered trademark of Nippon Soda Company, Ltd.



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