
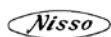


Section 1 Identification				
Product identifier		ASSAIL 70WP Insecticide		
Other means of identification		Water soluble powder containing Acetamiprid as active ingredient		
Recommended Use of the chemical and restrictions on use		Insecticide for agricultural use		
Distributor	Name			
	Address			
	TEL. No.		Fax No.	
Manufacturer	Name	Nippon Soda Co., Ltd.		
	Address	2-1, Ohtemachi 2-Chome, Chiyoda-ku, Tokyo 100-8165, Japan		
	TEL. No.	+81-3-3245-6041	Fax No.	+81-3-3245-6287
Emergency	TEL. No	+1-703-741-5970(CHEMTREC)	Fax No.	

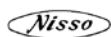
Section 2 Hazard(s) Identification	
Classification	Acute Toxicity-Oral: Hazard category 4 Hazardous to the aquatic environment - Acute hazard : Hazard category 3 Hazardous to the aquatic environment - Chronic hazard: Hazard category 3
Signal word	Danger
Hazard statement	H302 Harmful if swallowed H402 Harmful to aquatic life H412 Harmful to aquatic life with long lasting effects
Symbol	
Precautionary statement	Prevention P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. Response P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you fell unwell. P330 Rinse mouth. Disposal P501 Dispose of contents/container in accordance with local/national/international regulations.
Description of any hazards not otherwise classified	Not applicable



Section 3 Composition/Information on Ingredients		
Chemical name Common name and synonyms	CAS No.	Concentration (wt/wt%)
Active ingredient (E)-N ¹ -[(6-chloro-3-pyridyl)methyl]-N ² -cyano-N ¹ -methylacetamidine (CAS No. 135410-20-7) (ISO Name, Acetamiprid)	135410-20-7	67.0 – 73.0
Silicon dioxide, amorphous	112926-00-8	7.1-7.9
Kaolinite-type Clay (kaolin)	1332-58-7	5.0-15.0
Others	—	11.8-13.2

Section 4 First Aid Measures	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	Remove contaminated clothing and shoes, and wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Ingestion	Rinse mouth. Do Not induce vomiting. Call a POISON CENTER/doctor/physician if you fell unwell.
Most important symptoms and effects both acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed, if necessary	No specific antidote. Supportive care. Treatment based on judgment of physician in response to symptoms of Patient.

Section 5 Fire Fighting Measures	
Suitable (and unsuitable) extinguishing media	Suitable extinguishing media: Carbon dioxide, dry chemicals, foam or water spray. Unsuitable extinguishing media: Not known.
Specific hazards arising from the chemical	May cause dust explosion if flame, spark or high temperature objects persist. This product may evolve harmful and irritant gas and fume such as CO, CO ₂ , NO _x and organic compounds by heating or on combustion. The containers may explode by heating.
Special protective equipment and precautions for fire-fighters	Protective equipment Wear self-contained breathing apparatus and complete personal protective equipment for fire-fighting as it may evolve harmful and irritant gas/fume such as CO, CO ₂ , NO _x , HCl and organic compounds in heating or combusting. Precautions for fire-fighters Move containers away from fire area if it can be done without risk. If impossible to



remove containers from fire zone, cool them with water spray.

Section 6 Accidental Release Measures

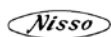
Personal precautions, protective equipment, and emergency procedures	Wear personal protective equipment. Refer to Section 8 for personal protective equipment. Avoid contact with skin, eye and clothing.
Environmental Precautions	This product is harmful to aquatic life with long lasting effects. Avoid release to the environment.
Methods and materials for containment and cleaning up	Keep away from all ignition source. Ventilate area. Bank up sand or soil around spill to avoid releasing this material to the environment. Scoop up spill with tool such as shovel, place in closable containers and hold for waste disposal. Use inert absorbent such as vermiculite and sand to complete pick up. Wash spill site after material pickup is complete. Obey all Federal, State and local regulations for health & safety and environmental protection in treating spill.

Section 7 Handling and Storage

Precautions for safe handling	Wear personal protective equipment. Refer to Section 8 for personal protective equipment. Avoid contact with skin, eye and clothing. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid dust formulation. Avoid breathing dust. Keep away from open flames, hot surface and sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed. Perfectly ground the equipment to avoid charging static electricity.
Conditions for safe storage	Keep tightly closed. Store in a cool, dry, well-ventilated place. Keep out of reach of children. Keep away from direct sunlight, oxidizing agents. Keep away from food, drink and animal feedstuffs. Store locked up.

Section 8 Exposure Control/Personal protection

Control parameters	Silicon dioxide, amorphous: ACGIH TWA 10 mg/m ³ , OSHA PEL: 20 mppcf, 80 mg/m ³ Kaolinite-type Clay (kaolin): ACGIH TWA 2 mg/m ³ ((Inhalable particulate matter containing no asbestos and < 1% crystalline silica) OSHA PEL TWA Total dust: 15 mg/m ³ ; Respirable fraction: 5 mg/m ³		
Appropriate engineering controls	Use general and/or local exhaust ventilation to control vapor. Provide safety shower and eye washes in work area.		
Individual protection measures, such as personal protective equipment			
Respiratory	Appropriate respirator for dust.	Gloves	Impermeable gloves such as rubber or polyvinyl chloride.



Eye/Face	Use safety goggles.	Footwear	Working shoes.
Clothing	Working cloths with long sleeves and long pants.	Others	None

Section 9 Physical and Chemical Properties

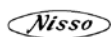
Appearance	Off-white powder, solid	Odor	Odorless
Specific Gravity	0.33	Density	13-17 lb/cu ft (loose)
Melting Point	98.9 °C (as active ingredient)	Boiling Point	Not available.
Vapor Density (air=1)	Not applicable.	Vapor Pressure	Not available.
Evaporation Rate (Ethyl acetate=1)	Not applicable.	pH	8.64 (1wt/wt%, 25°C)
Solubility in water	Approximately 2.7 wt%	Solubility in solvent	Not available.
Log Po/w	0.79/25°C (as active ingredient)		
Flash Point	Not applicable.	Autoignition Temp.	Not applicable.
Explosive properties	Not explosive	Oxidizing properties	Classification not possible
Dust explosion limit	Not available		

Section 10 Stability and Reactivity

Reactivity	The dangerous reaction is not known.
Chemical Stability	Stable under normal storage and handling conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid high temperature. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents
Hazardous decomposition Products	Carbon oxides, nitrogen oxides, hydrogen chloride and organic compounds.

Section 11. Toxicological Information

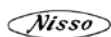
Acute Toxicity			
Oral	LD ₅₀ (rat)	1064 mg/kg(male, female)	
Dermal	LD ₅₀ (rat)	>2000 mg/kg(male, female)	
Inhalation	LC ₅₀ (rat)	> 2.88 mg/ L(4hr) (male, female)	



(dust, maximum attainable concentration)			
Skin corrosion/irritation			
Dermal (rabbit)	Slight irritant		
Serious eye damage/irritation			
Eye (rabbit)	Mild irritant		
Respiratory or skin sensitization			
Dermal (guinea pig)	Non-sensitizer		
Respiratory	Not available		
Germ cell mutagenicity			
active ingredient			
Ames test	Negative		
Chromosomal aberration test	Positive		
UDS test	Negative		
Micronucleus test	Negative (mouse)		
Carcinogenicity			
active ingredient			
	Negative(rat)		
	Negative(mouse)		
Substance	NTP	IARC Monograph	OSHA
Acetamiprid	Not listed.	Not listed.	Not listed.
Silicon dioxide, amorphous	Not listed	Group 3	Not listed
Kaolinite-type Clay (kaolin)	Not listed	Not listed	Not listed
Reproductive toxicity			
Reproductive toxicity			
Active ingredient	Negative(rat)		
Teratogenicity			
Active ingredient			
	Negative(rat)		
	Negative(rabbit)		
STOT-single exposure	Not available.		
STOT-repeated exposure	Not available.		
Chronic Toxicity			
active ingredient			
NOAEL (rat)	7.1 mg/kg/day(male), 8.8 mg/kg/day(female) (2 years)		
NOAEL (mouse)	20.3 mg/kg/day(male) , 25.2mg/kg/day(female) (1.5years)		
Aspiration hazard	Not available.		
Others	Not available.		

Section12 Ecological Information

Ecotoxicity



Acute Toxicity for Fish (Killifish)	LC ₅₀ : 146 mg/L (96hr)
Acute Toxicity for Daphnia (Daphnia Magna):	EC ₅₀ : 94 mg/L (96hr)
Acetamiprid	
Acute Toxicity to Fish:	LC ₅₀ (Carp) >100mg/L(96hr) LC ₅₀ (Rainbow trout) >100mg/L(96hr)
Acute Toxicity to Daphnia magna:	EC ₅₀ (Daphnia magna) 49.8 mg/L (48hr)
Acute Toxicity to Algae:	ErC ₅₀ >98.3mg/L(72hr)
Acute Toxicity to other life	
Acute Oral toxicity to Bee:	LD ₅₀ 8.85 μ g ai/bee (Acetamiprid 20%)
Acute Contact toxicity to Bee:	LD ₅₀ 9.26 μ g ai/bee (Acetamiprid 20%)
Do not sprinkle near mulberry field because this substance is harmful to silkworms.	
Persistence and degradability	
active ingredient	Not readily biodegradable.
Bioaccumulative potential	
active ingredient	This substance is not bioaccumulative.
Mobility in soil	
	Not applicable.
Other adverse effects	
	Not available.

Section 13 Disposal Considerations

- 1) Directly burn the material or dissolve it in a combustible solvent and burn it in a chemical incinerator with an afterburner and an alkaline scrubber, in accordance with Federal, State or local regulation.
- 2) Dispose of contents/container in accordance with local/national/international regulations.

Section 14 Transport Information

International marine transportation(IMDG)

This product is not classified as dangerous goods in IMDG Code.

Marine pollutant: Not applicable

DOT Regulations

This product is not classified as dangerous goods in DOT Regulations.

Marine pollutant: Not applicable

ICAO/IATA Dangerous Goods Regulations

This product is not classified as dangerous goods in ICAO/IATA-DGR.

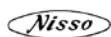
Environmentally hazard Not applicable

Special precautions for use

Not applicable.

Section 15 Regulatory Information

Substance (CAS No.)	Acetamiprid (135410-20-7)	Silicon dioxide, amorphous (112926-00-8)	Kaolinite-type Clay (kaolin) (1332-58-7)
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TSCA	Not applicable(pesticide)	Listed	Listed
OSHA	Not listed	Not listed	Not listed
SARA	Not listed	Not listed	Not listed
CERCLA	Not listed	Not listed	Not listed
Others	None	Not listed	Not listed

Section 16 Other Information

Label Information

NFPA Rating : Health ; **1** Flammability; **1** Instability; **0**

Regulatory Information in other area

Substance (CAS No.)	Acetamiprid (135410-20-7)	Silicon dioxide, amorphous (112926-00-8)	Kaolinite-type Clay (kaolin) (1332-58-7)
ENCS(JAPAN)	Not applicable(pesticide)	Not applicable (natural product)	Listed (1-20)
EINECS(EU)	Not applicable(pesticide)	Listed (231-545-4, 601-214-2)	Listed (310-194-1)
DSL(Canada)	Not applicable(pesticide)	Listed	Listed
IECSC(China)	Listed.	Listed	Listed
South Korea	Listed	Listed (KE-32733)	Listed (KE-21772)

Revised Information

This SDS was prepared according to ANSI Z400.1/Z129.1-2010.

Data prepared	February 13, 2017	Data revised	March 7, 2017
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This information is taken from sources or based upon data believed to be reliable.
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