Section 1 Identification

Product identifier		TRISTAR 70WSP 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	Belchim Crop Protection Canada, Inc.		
	Address	104 Cooper Drive, Unit 3, Guelph, Ontario N1C 0A4		
	TEL. No.	866-613-3336	Fax No.	519-826-7675
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, NOx 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, NOx, 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/m3, OSHA PEL: 20 mppcf, 80 mg/m^3 Kaolinite-type Clay (kaolin): ACGIH TWA 2 mg/m3 ((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 ℃ (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℃)
Solubility in water	Approximately 2.7 wt%	Solubility in solvent	Not available.
Log Po/w	0.79/25℃（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 μg ai/bee (Acetamiprid 20%)
Acute Contact toxicity to Bee: LD_{50} 9.26 μg 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)
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

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

CAUTION

Harmful if absorbed through the skin or if swallowed.

Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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	June 21, 2022

This information is taken from sources or based upon data believed to be reliable.
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