

Material Safety Data Sheet

IDENTITY: TRISTAR™ 70WSP Insecticide	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Distributor's Name Engage Agro Corporation	Emergency Telephone Number CANUTEC 1-800-424-9300
Address 1030 Gordon Street, Guelph, Ontario, Canada, N1G 4X5	Telephone Number for Information 1-866-613-3336
Manufacturer's Name Nippon Soda Co., Ltd.	Date Prepared February 12, 2004 Revised July 27, 2016
Address 2-2-1 Ohtemachi, Chiyoda-ku, Tokyo 100-8165 Japan	Signature of Preparer (optional)

Section II Hazardous Ingredients/Identity Information

Product Name : TRISTAR™ 70WSP Specific use : Insecticide
 PCP No. : 27127 EPA No. : 8033-22

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	Other Limits Recommended	% (optional)
(E)-N ¹ -[(6-chloro-3-pyridyl)methyl]-N ² - cyano-N ¹ -methylacetamide (CAS No. 135410-20-7) ISO Name: ACETAMIPRID	not listed	not listed	None	67.0 - 73.0
Amorphous Silicon Dioxide Hydrate (Amorphous Silica) (CAS No. 112926-00-8)	0.8(TWA)	10	NIOSH RELs (TWA) 6mg/m ³	7.1 – 7.9
Hydrous Aluminum Silicate(Kaolin) (CAS No. 1332-58-7)	5(TWA) (R)	2(TWA) (R)	NIOSH RELs (TWA) 5mg/ m ³ (R) 10mg/ m ³ (T)	5.0 -15.0
Other ingredients (Trade secret)				11.8 - 13.2

(R) :as respirable fraction (T):as total dust

IMDG Code: Not applicable UN Number : Not applicable
 Proper Shipping Name : Not applicable

Section III Physical/Chemical Characteristics

Boiling Point	not applicable	Specific Gravity (H ₂ O=1)	0.33
Vapor Pressure	not available	Melting Point	98°C Approximately
Vapor Density (AIR=1)	not available	Evaporation Rate (Butyl Acetate=1)	not available
PH	8.5 - 9.1 at 1 wt./wt. % dilution in water at 22°C	Density	13 - 17 lb/cu ft (loose)
Solubility in Water	Approximately 2.7 wt/wt %, dispersible		
Appearance and Odor	Solid, Off-white powder, No odor		
(Reproduce locally)	OSHA 174, Sept.1985		

Section IV – Fire and Explosion Hazard Data

Flash Point(Method Used) not available	Flammable Limits not applicable	LEL	UEL	
Extinguishing Media Dry chemical, Alcohol foam, Water spray, Carbon dioxide (CO ₂)				
Special Fire Fighting Procedures Firefighters should wear NIOSH/MSHA 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.				
Unusual Fire and Explosion Hazards 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.				
Section V – Reactivity Data				
Stability	Unstable		Conditions to Avoid	
	Stable	x	Not known	
Incompatibility (Materials to Avoid) Strong oxidizing agents, Strong bases, Strong acids				
Hazardous Decomposition or Byproducts Carbon monoxides, Carbon dioxides, and/or nitrogen oxides on combustion.				
Hazardous Polymerization	May Occur		Conditions to Avoid	
	Will Not Occur	x		
Section VI – Health Hazard Data				
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes	
Health Hazards (Acute and Chronic)				
Oral-rat LD ₅₀ :	1064 mg/kg			
Dermal-rat LD ₅₀ :	> 2000 mg/kg			
Inhalation-rat LC ₅₀ :	2.88 g/m ³ (4hrs)			
Eye irritation-rabbit:	mild			
Skin irritation-rabbit:	slight			
Skin sensitization-guinea-pig:	Negative			
This material has not caused carcinogenicity, developmental, or reproductive toxicity in animals.				
Carcinogenicity:				
	NTP	IARC	OSHA	ACGIH
ACETAMIPRID	No	No	No	No
Amorphous Silica	No	3	No	No
Kaolin	No	No	No	A4
Signs and Symptoms of Exposure No information is available.				
Medical Conditions Generally Aggravated by Exposure No information is available.				
Emergency and First Aid Procedures				

Eye contact: 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.

Skin 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.

Ingestion: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 table spoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-267-1373 for emergency medical treatment information.

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.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Safeguards

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) section 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. Emergency Response – Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection.

If dusting occurs, use NIOSH approved respirator protection. (Respirator with a NIOSH/MSHA/BHSE-approved organic vapour-removing cartridge with a pre-filter approved for pesticides or a NIOSH/MSHA/BHSE-approved canister approved for pesticides during application.

Evacuation Procedures and Safety: Personnel handling the material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation.

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 Clean up and Disposal of spill.

Spill clean up

Refer to Section VIII for personal protective equipment in handling.

Avoid causing dust. Shovel, vacuum or scoop up to a metal drum for disposal.

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 system.

Clean-up 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 washing for disposal. Decontaminate tools and equipment following clean up.

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. Report any spills to CANUTEC (1-800-424-9300).

Disposal Method

Waste Disposal

Do not contaminate water supply, food or feed by storage or disposal.

Do not dispose of by open dumping. Do not flush to surface water or sanitary sewer system.

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.

Chemical additions, processing or otherwise altering his material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of smoke.

Precautions to Be Taken in Handling and Storing

Handling (Personnel)

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist.

Avoid breathing dust. Wash thoroughly after handling

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.

Keep out of reach of children and animals.

Personnel handling this product should be thoroughly trained as to its hazards.

Use non-sparking tools and grounded/bonded equipment and containers when transferring. Do not ingest. Do not breathe dust or mists.

Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

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 Personal Protective Equipment (PPE) immediately after handling this product.

Wash the outside of gloves before removing.

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 system 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.

Never transfer this product to another container for storage. Do not allow prolonged storage in areas where temperatures frequently exceed 115F (46°C).

Section VIII Control measures

Respiratory Protection (Specify Type)

Not normally required. If using a respirator, choose a NIOSH/MSHA/BHSE-approved organic vapour-removing cartridge with a pre-filter approved for pesticides or a NIOSH/MSHA/BHSE-approved canister approved for pesticides during application.

Ventilation	Local Exhaust Desirable	Special not normally required
	Mechanical (General) Desirable	Other not normally required
Protective Gloves Impervious gloves such as rubber.		Eye Protection Safety goggles with side shields, splash proof goggles or face shield.

Other Protective Clothing or Equipment

Long-sleeved shirts and long pants, water proof gloves, shoes plus socks and chemical resistant headgear.

Work/Hygienic Practices**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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products 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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Only protected handlers may be in the area during application. For any requirements specific to your Province or Territory, consult the agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices.

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields, splash goggles or face shield.

An emergency eye wash must be readily accessible to the work area.

Applicators and other handlers must wear long-sleeved shirts and long pants, waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure.

This information is taken from sources or based upon data believed to be reliable. However, NISSO AMERICA INC. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.