

MATERIAL SAFETY DATA SHEET

Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:CLEARY PRODUCT CODE:EPA REGISTRATION NUMBER(S):CHEMICAL NAME:

CHEMICAL FAMILY:CHEMICAL FORMULATION:PRODUCT USE DESCRIPTION:

COMPANY

Cleary Chemical Corporation 178 Ridge Road, Suite A Dayton, New Jersey 08810 TRISTAR™ 70 WSP 7010 8033-22-1001 Acetamiprid, (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyanoN1-methylacetamidine Nicotinoid C10 H11 Cl N4 For Commercial Use Only. Ornamental use only. Not for Woodlands or forest management.

EMERGENCY TELEPHONE NUMBERS

CLEARY CHEMICAL CORP. M-F 9-5 EST (800) 524-1662 OR (732) 329-8399	PROSAR: (800) 324-7598 CHEMTREC 24 HOUR: (800) 424-9300
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SECTION 2: INFORMATION ON INGREDIENTS

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	% by Wt.	CAS#	Exposure Limits
Acetamiprid, (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine Amorphous silicon dioxide hydrate (Amorphous silica) Hydrous Aluminum Silicate Other Ingredients (Trade Secret)	73.0 7.9 15.0 13.2	135410-20-7 112926-00-8 1332-58-7	

SECTION 3: HEALTH HAZARD INFORMATION

Inhalation: Harmful if inhaled. Avoid breathing dust or spray mist.
Eye Contact: Avoid contact with eyes.
Skin Contact: Harmful if absorbed through skin. Avoid contact with skin or clothing.
Ingestion: Harmful if ingested.

Chronic Effects of Overexposure: This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Other Toxic Effects: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease. Signs and Symptoms: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 4: FIRST AID MEASURES

Ingestion: Immediately call a poison control center or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. 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. 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. 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 further treatment advice. Note to Physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Flammability: Combustion: Will form dust explosive mixtures in air. Dust explosive rating of ST-1 (K_{st}=165 bar-meter per second). Flash Point (Method): N/A Extinguishing Media: Dry chemical, alcohol foam, water spray, carbon dioxide (CO₂) 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 6: ACCIDENTAL RELEASE MEASURES

General and Disposal 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 in Section 8. Cleanup and Disposal of Spill: Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). 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. Spill or Leak Procedures Containment of Spill: Stop leak if it can be done without risk. Follow procedure under Cleanup and Disposal of Spill. 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 waterway. Spills may be reportable to the National Response Center (800-424-8802) and to state and /or local agencies.

SECTION 7: HANDLING AND STORAGE

Handling Procedures: **KEEP OUT OF REACH OF CHILDREN AND ANIMALS** Personnel handling this product should be thoroughly trained as to its hazards. Use nonsparking 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.

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.

Storing Procedures: 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 115°F (46°C).

Work/Hygienic Procedures: 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 hand 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.

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.

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

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 State or Tribe, consult the agency responsible for pesticide regulation.

Min/Max Storage: Min Temp: No data Max Temp: 46°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

Eye/Face Protection: 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 or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

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		Exposure Limits:	
Amorphous silicon dioxide hydrate (Amorphous silica)	112926-00-8	ACGIH TWA	10 mg/m3
		OSHA Z1A TWA	6 mg/m3
		US CA OEL TWA PEL	5 mg/m3
		Form of Exposure Respirable fraction. US CA OEL TWA PEL	5 mg/m3
		Form of Exposure Respirable fraction. US CA OEL TWA PEL	10 mg/m3
		Form of Exposure Total dust. US CA OEL TWA PEL	5 mg/m3
		Form of Exposure Respirable fraction. US CA OEL TWA PEL	10 mg/m3
		Form of Exposure Total dust. US CA OEL TWA PEL	10 mg/m3
		Form of Exposure Total dust. ACGIH TWA	2 mg/m3
		NIOSH REL	5 mg/m3
		Form of Exposure Respirable. NIOSH REL	10 mg/m3
		Form of Exposure Total US CA OEL TWA PEL	2 mg/m3
		Form of Exposure Respirable dust. OSHA Z1 PEL	5 mg/m3
		Form of Exposure Respirable fraction. OSHA Z1 PEL	15 mg/m3
Hydrous Aluminum Silicate	1332-58-7		

Form of Exposure Total dust.		
OSHA Z1A TWA		5
		mg/m3
Form of Exposure Respirable fraction.		
OSHA Z1A TWA		10
		mg/m3
Form of Exposure Total dust.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance and odor:	Solid Off-white Powder. No odor determined.
Boiling Point:	NDA
Vapor Pressure @20°C mm Hg:	NDA
% Volatile:	NDA
Melting Point:	NDA
Freezing Point:	NDA
Specific Gravity (25°C):	NDA
Evaporation Rate:	N/A
Solubility in water:	Approximately 2.7 wt/wt % dispersible
pH:	8.5 - 9.5 at 1 wt/wt% dilution in water at 22°C
Vapor Density (air = 1):	N/A
Density:	13-17 lb/cu ft (loose)

Other Information: Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

SECTION 10: STABILITY AND REACTIVITY

Stability: This material is stable under normal handling and storage conditions described in Section 7. Conditions to Avoid: None known Incompatibility: Strong bases, strong acids and strong oxidizing agents. Hazardous Polymerization: Will not polymerize.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data: Oral (acute): Rat: LD₅₀: = 1,064 mg/kg Dermal (acute): Rabbit: LD₅₀: >2,000 mg/kg

Inhalation (acute): Rat: LC₅₀: >2.88 mg/l 4 h Acute Respiratory Irritation: No test data found for product. Skin Irritation: Rabbit: Slightly irritating Eye Irritation: Rabbit: Mildly irritating Sensitization: Guinea pig: Non-sensitizing Chronic Toxicity: In long term animal feeding studies there was no evidence of carcinogenicity. Not

considered a carcinogen or mutagen.

Assessment Carcinogenicity:

ACGIH

Hydrous Aluminum Silicate

1332-58-7

Group A4

NTP

None

IARC

Amorphous silicon dioxide hydrate
(Amorphous silica)

112926-00-8

OSHA

None

Reproductive & Developmental Toxicity: In reproductive and developmental studies in animals, there was no effect on reproduction. Not considered a reproductive toxicant.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Precautions: 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 contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater. Ecological Information: For ecotoxicological data call the product information phone number listed in Section 1. Environmental Fate: For environmental fate data call the product information phone number listed in Section 1.

SECTION 13: DISPOSAL CONSIDERATIONS

General Disposal Guidance: Do not contaminate water, food, or feed by storage or 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 this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. 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.

SECTION 14: TRANSPORTATION INFORMATION

Not regulated for transportation per DOT regulations.

SECTION 15: REGULATORY INFORMATION

US Federal EPA Registration No. 8033-22-1001 TSCA list
Hydrous Aluminum Silicate 1332-58-7
TSCA12b export notification
None
SARA Title III - section 302 - notification and information
None
SARA 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) Hydrous Aluminum Silicate

112926-00-8
1332-58-7 PA IL,PA, RI

Canadian Regulations Canadian Registrat.
No. Canadian Domestic Substance List
Amorphous silicon dioxide hydrate
(Amorphous silica) Hydrous Aluminum
Silicate

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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

SECTION 16: OTHER INFORMATION

Health		Flammability	Reactivity	Others
HMIS	2	1	0	
NFPA	2	1	0	

Please note: Cleary Chemical Corp. believes that the information and recommendations contained herein are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. It is the user's responsibility to determine the suitability of the information for their purposes. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided.

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