



CLEARY MATERIAL SAFETY DATA SHEET

TriStar® 30 SG Insecticide

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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: TriStar 30 SG Insecticide
EPA REGISTRATION NUMBER(S): 8033-94-1001
CHEMICAL FAMILY: Nicotinoid
CHEMICAL NAME: Acetamiprid
PRODUCT USE: Insecticide

COMPANY

Cleary Chemical Corporation
178 Ridge Road, Suite A
Dayton, New Jersey 08810

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#	ACGIH TLV	OSHA PEL
Acetamiprid	<50	135410-20-7	NA	Y
Naphthalene sulfonic acid polymer with formaldehyde, sodium salt	5-20	9084-06-4	NA	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)

SECTION 3: HEALTH HAZARD INFORMATION

Emergency Overview: Light beige to brown powder/solid. Weak amine odor. CAUTION!
KEEP OUT OF REACH OF CHILDREN.
MAY FORM COMBUSTIBLE DUST-AIR MIXTURES.
CAUSES EYE AND SKIN IRRITATION.

Potential Health Effects: 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 moderately toxic if swallowed, no more than slightly toxic if absorbed through skin, slightly irritating to skin, and moderately irritating to eyes.

SECTION 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.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Fire and Explosive Properties:

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

Extinguishing Media: Use water spray, 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, turnout gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak: Stop the leak, if possible. Ventilate the space involved. Absorb, sweep up, and 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.

SECTION 7: HANDLING AND STORAGE

Handling Procedures: 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. Use spark resistant tools. Use explosion-proof equipment. Keep container tightly closed; flush container clean before discarding. Do not reuse container as it may retain hazardous product residue. Prevent dust accumulation. Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift onto 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.

SECTION 7: HANDLING AND STORAGE (continued)

Storage Procedures: 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.

SECTION 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). Dilution ventilation acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment. 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: Where there is potential for eye contact, wear chemical goggles and have eye-flushing equipment available.

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

Respiratory Protection: Avoid breathing dust. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full face-piece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, 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 there may be a potential for significant exposure, 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: The components of this product have no established Airborne Exposure Guidelines.

- 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.
- WHEEL-AIHA Sensitizer designator with a value of “Y” above means that exposure to this material may cause allergic skin reactions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor:	Light beige to brown powder/solid; Weak amine odor
pH:	NA
Specific Gravity	NA
Vapor Pressure	NA
Vapor Density:	NA
Melting Point	98.9° C (Acetamiprid)
Freezing Point:	NA
Boiling Point:	NA
Solubility in Water:	Soluble
Bulk Density:	0.71 g/cm ³ (Tap)

SECTION 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 oxidizing agents

Hazardous Decomposition Products: May evolve CO, NO_x and hydrogen compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Data on this material and/or its components are summarized below. Single exposure (acute) studies indicate:

Oral: slightly toxic to rats (LD50 male: 886 mg/kg, female: 805 mg/kg) and moderately toxic to mice (LD50 male: 153 mg/kg, female: 133 mg/kg)

Dermal: No more than slightly toxic to rats (LD50>2,000 mg/kg)

Eye Irritation: Moderately irritating to rabbits

Skin Irritation: Slightly irritating to rabbits. No skin allergy was observed in guinea pigs following repeated exposure. No genetic changes were observed in standard tests using Ames, UDS, Micronucleus (mouse). Positive responses have been reported in genetic tests using the chromosomal aberration test.

SECTION 12: ECOLOGICAL INFORMATION

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

This material is practically non-toxic to freshwater organisms such as rainbow trout (96-hr LC50>120 mg/l), Daphnia (48-hr EC50>120 mg/l), and green algae (72-hr EC50=880 mg/l).

Chemical Fate Information: Not readily biodegradable. Because of its low log Pow, it is concluded that this material will not bioaccumulate.

SECTION 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.

SECTION 14: TRANSPORTATION INFORMATION

DOT Name	Not regulated	DOT Technical Name
DOT Hazard Class		UN Number
DOT Packing Group	PG	RQ

SECTION 15: REGULATORY INFORMATION

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

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

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Naphthalene sulfonic acid polymer with formaldehyde, sodium salt	NE	
Acetamiprid	NE	NE

SECTION 16: OTHER INFORMATION

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 users 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, expresser or implied, is made concerning the information provided.

Reason for issue:	New MSDS for initial product registration	Effective date:	1.5.06
Prepared by:	Rick Fletcher	Replaces:	NA