ALDEN LEEDS, INC.
55 JACOBUS AVENUE
SO. KEARNY, NJ 07032

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product Name:	**Nuclo, Ortex, or Private Label Slow Dissolving Chlorinating 7-Day Tablets, Sticks, Desert Granules or Quick Kill**	
Code Number:	**1100-1280 and 3215-3219**	
Date:	**February 26, 2015**	**Supersedes: June 25, 2013**

1. Identification of the Substance and Company

Chemical name:	Trichloro-s-triazinetrione
Synonym(s):	Trichloroisocyanuric Acid; TCCA; Trichlor; Trichloro-s-triazinetrione; Symclosene
Chemical formula:	C 3 Cl 3 N 3 0
Chemical family:	Chloroisocyanurate
Molecular weight:	232.41
Supplier:	Alden Leeds, Inc 55 Jacobus Avenue So. Kearny, NJ 07032
Emergency phone:	Chemtrec (800)424-9300 Medical (800)420-9236

2. Hazards Identification

The consumer variant of this product is labeled in accordance with regulations administered by the consumer product safety commission (CPSC) and the food and drug administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration (OSHA) applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

GHS classification: Ox. Sol. 2 H272, May intensify fire; oxidizer.
Acute Tax. 4, H302 Harmful if swallowed
Eye lrrit. 2, H319 Causes serious eye irritation
USA: Eye lrrit. 2A, Causes serious eye irritation
STOT SE 3, H335 May cause respiratory irritation
Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects

Symbol(s)

Signal Word: DANGER

Hazard statements	H302 - Harmful if swallowed H319 - Causes serious eye irritation H335 - May cause respiratory irritation H410 - Very toxic to aquatic life with long lasting effects EUH031 -Contact with acids liberates toxic gas
Precautionary statements	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P221 -Take any precaution to avoid mixing with combustibles/other chemicals P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P273 - Avoid release to the environment P391 - Collect spillage P301 + P312 -IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 - Rinse mouth P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 -If eye irritation persists: Get medical advice/attention. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P220 - Keep/Store away from clothing/ combustible materials P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 -Use only outdoors or in a well-ventilated area P370 + P378 - In case of fire: Use water for extinction P405 - Store locked up P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container in accordance with national and international regulations
Potential environmental effects	Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

NFPA Ratings (Scale 0-4): Health = 3, Fire = 0, Reactivity = 2.
Special Hazard Warning: OXIDIZER.

HMIS Ratings (Scale 0-4): Health = 3, Fire = 0, Reactivity = 2

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3.Composition / Information on Ingredients

Components	CAS No.	Weight %
Trichloroisocyanuric Acid	87-90-1	99

4. First-Aid Measures

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.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, acute or delayed

- Eye Contact: Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

- Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation.
Repeated skin exposure may cause tissue destruction due to the corrosive nature of the product.

- Inhalation: Irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function.
Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.

-Ingestion: Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. No specific antidote. In case of ingestion DO NOT induce vomiting. Treat symptomatically and supportively.

Medical conditions aggravated by exposure: Asthma, respiratory and cardiovascular diseases.

5. Fire-Fighting Measures

Suitable extinguishing media:	Water. Large amounts of water may be needed and the flow of water should not be stopped until the fire/reaction has stopped.
Extinguishing media not to be used:	Do not use dry chemical extinguisher containing ammonia compounds.
Unusual fire and explosion Hazards:	When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and carbon dioxide.
Fire-fighting procedure:	Cool containers with water spray. Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.

6. Accidental Release Measures

Personal precautions:	For small spills in a well-ventilated areas, wear a NIOSH approved half-face or full face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear; and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with material. CAUTION - Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.
Environmental precautions:	Prevent entry into sewers and watercourses
Methods for cleaning up:	Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur.
- Soil:	Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.
- Water:	This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately.
-Air:	Vapors may be suppressed by the use of water fog

7. Handling and Storage

Handling: Avoid bodily contact. Do not take internally. Upon contact with skin or eyes, wash off with water.

Storage: Store in a dry, cool, well-ventilated area away from incompatible materials (see "materials to avoid"). Product has an indefinite shelf-life limitation. Do not store at temperatures above 60°C/140°F. Available chlorine loss can be as little as 0.1% per year at ambient temperatures.

8. Exposure Controls / Personal Protection

Exposure Limits:

Components	ACGIH-TLV Data	OSHA (PEL) Data
Trichloroisocyanuric Acid CAS # 87-90-1	Not determined	Not determined

Ventilation requirements: Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure good general ventilation.

Personal protective equipment:

- Respiratory protection: When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter.

- Hand protection: Neoprene gloves

- Eye protection: Use chemical safety glasses to avoid eye contact where industrial use occurs, chemical goggles may be required.

- Skin and body protection: Body covering clothes and boots

Hygiene measures: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and Chemical Properties

Appearance:	White granules or tablet-form product
Odor:	Sharp, chlorine-like bleach odor
Odor Threshold:	Not determined
pH:	2.7-2.9 (1% solution)
Melting point/range:	225-230°C (decomposes)
Boiling point/range:	Not applicable (decomposes)
Flash point:	Not applicable under standard conditions
Evaporation rate:	Not applicable under standard conditions
Vapor pressure:	Not applicable under standard conditions
Vapor Density:	Not applicable under standard conditions
Solubility in water:	1.2g/100ml at 25C
Solubility in solvents:	Not Available
Auto-ignition temp:	Not Available
Decomposition temp:	225C (437F)
Viscosity:	Not Available
Bulk density:	Granular – 0.89-1.1 g/cc - Tablet 1.16-1.9g/cc
Specific gravity:	>1
Explosive properties:	Not available
Oxidizing properties:	Oxidizer
Particle size:	Not available

10. Stability and Reactivity

Reactivity:	Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.
Stability:	Stable under normal conditions
Possibility of hazardous Reactions:	Decomposes when heated, releasing poisonous and corrosive fumes.
Conditions to avoid:	Heating above 225°C (437F).

Materials to avoid:	Do not package in paper or cardboard. Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing mono-ammonium compounds.
Hazardous decomposition products:	Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.

11. Toxicological Information

Likely Routes of Exposure:	Skin, Inhalation, Eye contact, Ingestion
Acute toxicity:	
- Rat oral LD50:	809mg/kg
- Rabbit dermalLD50:	>2000mg/kg
- Eye irritation (rabbit):	Corrosive
- Dermal irritation (rabbit):	Corrosive
Dermal sensitization:	Not a sensitizer
Chronic toxicity:	Prolonged exposure may cause damage to the respiratory system. Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.
Mutagenicity:	Not mutagenic in five Salmonella strains and one E.coli strain with or without mammalian microsomal activation
Carcinogenicity:	Not classified by IARC, OSHA, EPA. Not included in NTP 12th Report on Carcinogens
Reproductive toxicity:	There are no known or reported effects on reproductive function or fetal development. Toxicological investigation indicates it does not affect reproductive function or fetal development.

12. Ecological Information

Aquatic toxicity:	
- 96 Hour-LC50, Fish	0.32 mg/l (Rainbow trout) 0.30 mg/l (bluegill sunfish)
-48 hour-LC50,Daphnia magna	0.21 mg/l
Avian toxicity:	
- Oral LD50, Mallard duck	1600 mg/kg
- Dietary LC50, Mallard duck	>10,000 ppm
- Dietary LC50, Bobwhite quail	7422 ppm
Persistence and degradability:	Expected to biodegradable (Lit.)
Bioaccumulative potential:	Not expected to bioaccumulate (Lit.)
Mobility in soil:	Expected to be highly mobile in soil (Lit.)
Germany, water endangering classes	3 (WGK)

13. Disposal Considerations

Waste disposal:	Observe all federal, state and local environmental regulations when disposing of this material. If this product becomes waste, it will be a hazardous waste that is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. Care must be taken to prevent environmental contamination from the use of this material.
Disposal of Packaging:	Empty containers should be disposed of in accordance with all applicable laws and regulations

14. Transportation Information

UN No.	2468
DOT Proper shipping name:	Trichloroisocyanuric Acid Dry Class: 5.1 - Oxidizing substances Label: Oxidizing substances (5.1) Packing Group: II Emergency Guide No.140

Note: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity and Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

IMDG:	Proper shipping name: Trichloroisocyanuric Acid Dry Class: 5.1 - Oxidizing substances Label: Oxidizing substances (5.1) Packing Group: II Mark: MARINE POLLUTANT
ICAO/IATA	Proper shipping name: Trichloroisocyanuric Acid Dry Label: Oxidizing substances (5.1) Class: 5.1 Packing group: II Marking: Environmentally hazardous substance

15. Regulatory Information

USA Reported in the EPA TSCA Inventory.
This product is registered under FIFRA.

- EPA Registration no.	7124-12, 18, 22, 44, 53, 70, 72, 110, and or 111
- Emergency overview in Accordance to EPA Master Label	DANGER Hazards to humans and domestic animals Highly corrosive Causes irreversible eye damage or skin burns May be fatal if inhaled May be fatal if absorbed through skin Strong oxidizing agent This pesticide is toxic to fish and aquatic organisms.
-SARA (311, 312)	This product is categorized as an immediate health hazard, and fire and reactivity physical hazard. This product does not contain a chemical listed at or above de minimis concentrations.

- Massachusetts Right-to-Know Hazardous Substances list	Listed
- New Jersey Right-to-Know Hazardous Substances list	Listed
- Pennsylvania Right-to-Know Hazardous Substances list	Listed
-Waste Classifications	If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001
- Workplace Classification	This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).
Canada	Listed in OSL
-WHMIS hazard class	C oxidizing materials D1B Toxic material causing immediate and serious toxic effects D28 Toxic materials causing other toxic effects
EU	Reported in EINECS
EC No.	201-782-8
Japan	ENCS no. 5-1044 ISHL no. 5-1044
Australia	Listed in AICS
New Zealand	Listed in NZIoC
China inventory	Listed in IECSC
Mexico	Listed in the National Inventory of Chemical Substances (INSQ).
Korea	Listed in the Korea Existing Chemicals Inventory (KECI, number KE-34101

16. Other Information

This data sheet contains changes from the previous version in section(s)
2, 3(REACH), 6(CLR), 10, 11, 12, 14, 15

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof Alden Leeds, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Alden Leeds, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.

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