

SAFETY DATA SHEET

SDS NUMBER: 001081-15-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 10/12/15

CADENCE® ATZ NXT

SUPERSEDES: 08/12/13

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: CADENCE® ATZ NXT HERBICIDE**1.2 RECOMMENDED USE:** GROUP 15|5 PREEMERGENCE HERBICIDES FOR CONTROL OF ANNUAL GRASSES

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565 – **Product Information:** 1-888-574-2878 (LPI-CUST)**U.S. Coast Guard National Response Center:** 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity – Oral	Category 4	H302
Sensitization - Skin	Category 1	H317
Specific Target Organ Toxicity – Single Exposure	Category 3	H335
Specific Target Organ Toxicity – Repeated Exposure	Category 2	H373

2.2 Label elements

**Signal word:** WARNING**Hazard Statement:**
H302 – Harmful if swallowed.
H317 – May cause an allergic skin reaction.
H335 – May cause respiratory irritation.
H373 – May cause damage to organs through prolonged or repeated exposure.**Precautionary Statement:**

P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
P264 – Wash hands and face thoroughly after handling.
(Prevention): P270 – Do not eat, drink or smoke when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P102 – Keep out of reach of children.

Precautionary Statement:

(Response): P301+P312: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P330 – Rinse mouth.
P302+P352: IF ON SKIN: Wash with soap and water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P314 – Get medical advice/attention if you feel unwell.
P333 – If skin irritation or rash occurs: Get medical advice/attention.
P363 – Wash contaminated clothing before reuse.

Precautionary Statement:

(Storage): P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405 – Store locked up.

(Disposal): P501 – Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

None known

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3. COMPOSITION, INFORMATION ON INGREDIENTS**3.1 Substances****3.2 Mixtures****Classification according to 29 CFR 1910.1200**

Chemical Name:	CAS No.	Classification	Concentration [%]
Acetochlor	34256-82-1	Skin sens. 1; H317	33.40
Atrazine	1912-24-9	Oral. tox: 4; H302	26.90
Furilazole	121776-33-8	STOT-SE. 3; H335	>= 1.30
*Other ingredients	Not available	STOT-RE. 2; H373	>= 22.00 - <= 38.40

*Ingredients not specifically listed are non-hazardous or are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

4. FIRST AID MEASURES**4.1 Description of First Aid Measures**

General Advice: Get medical attention if symptoms occur.

- 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.
- 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.
- If on skin or clothing:** 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.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Harmful if swallowed. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

4.3 Immediate Medical Attention and Special Treatment

Treatment: There is no specific antidote. Treat symptomatically.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565
 Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: There is no specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA:**

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: May produce combustion gases such as hydrogen chloride, oxides of nitrogen and oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of mists and vapors, and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Absorb and/or contain spill with inert material, then place in a suitable container. Check local, state and federal regulations for proper disposal. Never return spills to original containers for re-use.
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Do not breathe mist, vapors or spray. 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies. Do not store in Mild steel or Aluminum. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

Components	Type	Value
Atrazine	TWA	2 mg/m ³ (Inhalable fraction)

U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
No listings		

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Specimen
No data available		

8.2 EXPOSURE CONTROLS:

Engineering Measures

When engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation or engineering controls specific to the task at hand (refer to product labeling for specific information).

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves. Shoes plus socks. Chemical resistant apron (for mixers loaders, and cleaners).

Respiratory Protection: Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved dust mist filtering respirator with any N, R, P, or HE filter. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Suspension.
ODOR: Slight.
ODOR THRESHOLD: No data available.
COLOR: Pink.
pH: 7.0 – 8.5
MELTING POINT / FREEZING POINT: No data available
BOILING POINT: No data available
FLASH POINT: > 199.9°F (> 93.3°C) [Closed cup].
FLAMMABILITY (solid, gas): No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.
VAPOR PRESSURE: No data available.
SOLUBILITY: Emulsifies.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: Acetochlor: 4.14; Atrazine: 2.75.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
VISCOSITY: (kinematic): No data available.
SPECIFIC GRAVITY (Water = 1): 1.11 g/ml
BULK DENSITY: 9.26 lbs./gal. / 1.11 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize. Reaction with oxidizers may cause fire.

10.4 CONDITIONS TO AVOID

Exposure to elevated temperatures can cause product to decompose.

10.5 INCOMPATIBLE MATERIALS

Oxidizing materials. Aluminum. Mild steel.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition products include, but are not limited to, hydrogen chloride, oxides of carbon and oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Skin contact. Eye contact. Inhalation.

LC₅₀ (rat): No data available

LD₅₀ Oral (rat): 1,338 mg/kg (similar material)

LD₅₀ Dermal (rat): > 5,000 mg/kg (similar material)

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): Non-irritating.

Eye Irritation (rabbit): Slightly irritating.

Specific Target Organ Toxicity: Single exposure may cause respiratory irritation. Repeated overexposure may cause damage to blood, central nervous system, heart, liver, kidneys, testes and mammary gland.

Aspiration: Not likely to be an aspiration hazard.

Skin Sensitization (guinea pig): May cause an allergic skin reaction.

Carcinogenicity: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); IARC-3 (Unclassifiable as to Carcinogenicity in Humans)

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

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12 ECOLOGICAL INFORMATION**12.3 ECOTOXICITY**

The product is very toxic to aquatic life.

Ecotoxicological Data

	Species	Test Results
Acetochlor	Oncorhynchus mykiss	0.36 mg/L – 96-hour LC ₅₀
	Daphnia Magna	8.6 mg/L – 48-hour EC ₅₀
Atrazine	Poecilia reticulata	46 mg/L – 96-hour LC ₅₀
	Daphnia Pulex	5.29 mg/L – 48-hour EC ₅₀
Furilazole	Oncorhynchus mykiss	6.2 mg/L – 96-hour LC ₅₀
	Lepomis macrochirus	4.6 mg/L – 96-hour LC ₅₀
	Daphnia Magna	26 mg/L – 48-hour EC ₅₀

Drift or runoff may adversely affect non-target plants.
Do not apply directly to water.
Do not contaminate water when disposing of equipment wash water.
Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

12.4 MOBILITY IN SOIL

Medium: Koc between 150 and 500.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS**13.1 WASTE TREATMENT METHODS**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

14 TRANSPORT INFORMATION**14.3 LAND TRANSPORT**

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

15 REGULATORY INFORMATION**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS****NFPA & HMIS Hazard Ratings:****NFPA**

2 Health
1 Flammability
1 Instability

0 Least
1 Slight
2 Moderate
3 High
4 Severe

HMIS

2 Health
1 Flammability
1 Reactivity
H PPE

SARA Hazard Notification/Reporting**SARA Title III Hazard Category:**

Immediate Y Fire N Sudden Release of Pressure N
Delayed Y Reactive N

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Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Atrazine (CAS: 1912-24-9) 26.9%.

RCRA Waste Code: Not listed.

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if swallowed.

Harmful if inhaled.

Causes moderate eye irritation.

Avoid contact with eyes or clothing.

Avoid breathing vapor or spray mist.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Wear long sleeved shirt and long pants, socks and shoes.

16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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