



Anuew
Safety Data Sheet
{Reserved}

Issue Date: 2022-08-12

Supersedes Date: N/A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ANUEW™
PMRA PCP.No.: 34508
Product Type: Plant Growth Regulator

Supplier: Nufarm Agriculture Inc
5101, 333, 96th Avenue NE,
Alberta, Canada T2K 0S3.
1-800-868-5444

Telephone Numbers: 24 Hour Emergency Response Number, **Chemtrec, 1-800-424-9300**
For Medical Emergencies Only, Call 1-877-325-1840
For product and use information, Nufarm Agriculture Inc, 1-800-868-5444.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

Not hazardous

HEALTH HAZARDS:

Eye Irritation

Category 2A

ENVIRONMENTAL HAZARDS:

Hazardous to the aquatic environment, acute

Category 2

SIGNAL WORD

WARNING

HAZARD STATEMENTS

Causes serious eye irritation.



PRECAUTIONARY STATEMENTS

Wash thoroughly after handling. Wear protective gloves and eye protection. Toxic to aquatic life.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Dispose of contents in accordance with local, state, and federal regulations.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	% BY WEIGHT
Prohexadione calcium	127277-53-6	26.7 – 28.3
Precipitated silica	112926-00-8	0.9 – 1.1
Calcium silicate	1344-95-2	3.8 – 4.2
Ammonium sulfate	7783-20-2	50.4 – 56.1
Other Ingredient	Trade Secret	Trade Secret

Synonyms:

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye. Get immediate medical attention.

If Swallowed: DO NOT induce vomiting. Get immediate medical attention.

If Inhaled: Move person to fresh air. If breathing is difficult, administer oxygen. If symptoms develop, get medical advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water. If irritation or rash occurs, get medical advice.

Most important symptoms/effects, acute and delayed: Causes moderate eye irritation. Causes slight skin irritation.

Indication of immediate medical attention and special treatment needed, if necessary: None expected.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Hazardous Decomposition Materials (Under Fire Conditions): Thermal decomposition products may include carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Avoid creation of dusty conditions. Scrape up and place in appropriate closed container. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

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7. HANDLING AND STORAGE

HANDLING:

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

STORAGE:

Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained, carefully swept up, and collected for disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Eye/Face Protection: Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks and shoes. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: 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: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

Component	OSHA		ACGIH		Unit
	TWA	STEL	TWA	STEL	
Prohexadione calcium	NE	NE	NE	NE	
Precipitated silica	80	NE	NE	NE	mg/m ³ /% SiO ₂
Calcium silicate	15* 5**	NE	10	NE	mg/m ³
Ammonium sulfate	NE	NE	NE	NE	
Other Ingredients	NE	NE	NE	NE	

NE = Not Established

* Total dust

**Respirable fraction

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	solid granules
Odor:	characteristic
Odor threshold:	No data available

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pH:	6.0 – 8.0
Melting point/freezing point:	No data available
Initial boiling point and boiling range	No data available
Flash point:	not applicable, the product is a solid
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	0.54 – 0.70 mg/cm ³
Solubility(ies):	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	not applicable, the product is a solid

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive if stored and handled as prescribed/indicated.

Chemical Stability: The product is stable if stored and handled as prescribed/indicated.

Possibility of Hazardous Reactions: Chemically stable. Hazardous polymerization will not occur.

Conditions to Avoid: Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Incompatible Materials: strong oxidizing agents.

Hazardous Decomposition Products: no hazardous decomposition products if stored and handled as prescribed. Thermal decomposition products may include carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact, Inhalation

Symptoms of Exposure:

Eye Contact: Causes serious eye irritation. Vapors and mists can cause irritation.

Skin Contact: Irritating based on toxicity studies.

Ingestion: Harmful if ingested. May cause nausea, vomiting, abdominal pain, weakness of arms and/or legs, dizziness, loss of coordination. The petroleum hydrocarbon component, if aspirated into the respiratory system during ingestion or vomiting may cause mild or severe pulmonary injury, possibly progressing to death.

Inhalation: May cause upper respiratory tract irritation, coughing, wheezing, nausea, headache, depression. Overexposure to petroleum hydrocarbon component may cause irritation to respiratory tract, headaches, anesthesia, drowsiness, unconsciousness and other central nervous system effects, possibly including death.

Delayed, immediate and chronic effects of exposure: None reported.

Toxicological Data:

Data from laboratory studies conducted on Prohexadione calcium noted by (*), all other data from studies conducted on a substantially similar product.

Oral: Rat LD₅₀: > 5,000 mg/kg (female) *

Dermal: Rat LD₅₀: >2,000 mg/kg

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Inhalation: Rat 4-hr LC₅₀: <5.7 mg/L

Eye Irritation: Rabbit: Moderately irritating

Skin Irritation: Rabbit: Slightly irritating

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

Subchronic (Target Organ) Effects: No adverse effects were observed.

Carcinogenicity / Chronic Health Effects: No carcinogenic effect was observed in long term feeding studies in rats.

Reproductive Toxicity: Animal studies showed no results in impaired fertility.

Developmental Toxicity: Animal studies showed no indications of developmental toxic or teratogenic effects.

Genotoxicity: Various tests conducted with microorganisms and mammals found no mutagenic effect.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data from EPA ECOTOX Database on Prohexadione Calcium Technical:

Bluegill 96-hour LC₅₀: >95.6 mg/l

Bobwhite Quail 8-day Dietary LC₅₀: >5,250 ppm

Rainbow Trout 96-hour LC₅₀: >94.6 mg/l

Mallard Duck 8-day Dietary LC₅₀: >5,250 ppm

Daphnia 48-hour EC₅₀: >90 mg/l

Honey Bee Oral LD₅₀: > 100 µg/bee

Environmental Fate:

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Excess pesticide or rinsate must be handled and disposed of in accordance with federal, state, or local procedures. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the hazardous waste representative at the nearest EPA Regional Office for guidance.

Container Handling and Disposal:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this MSDS.

TDG

Non-Regulated

DOT

Non-Regulated

IMO / IMDG

Non-Regulated

IATA

Non-Regulated

15. REGULATORY INFORMATION

Pest Control Products Act Registration Number: 34508

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This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

(None)

WHMIS exempt.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) is designed to comply with the Globally Harmonized System (GHS) of classification, and the Hazardous Products Regulations.

This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use. The product labeling provides that information specifically for product use as intended.

Company and published information is used in the development of this SDS. The information herein is presented in good faith and believed accurate at the date of publication. However, no warranty, expressed or implied, is given.

Revisions to the last issue: Updated following registration.

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