

SAFETY DATA SHEET

Compact® 6X Mepiquat

Issuing Date: 6-June-2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Compact® 6X Mepiquat

EPA Reg. No.: 1381-274

Product Type: Agricultural Plant Growth Regulator

Company Name: Winfield Solutions, LLC

P.O. Box 64589

St. Paul, MN 55164-0589

For Non-Emergency Business Inquiries: 1-855-494-6343 (Mon - Fri 8am - 5pm CST)

Emergency Telephone Numbers:

FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR

ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hrs)

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

None

HEALTH HAZARDS:

Acute Toxicity – Oral Category 4
Eye Irritant Category 2B
Skin Irritant Category 2

SIGNAL WORD:

WARNING

HAZARD STATEMENTS:

Harmful if swallowed. Causes skin/eye irritation.



PREVENTION:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Do not eat drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing.

RESPONSE:

See Section 4 for First Aid.

DISPOSAL:

Dispose of contents/container in accordance with Federal, state and local regulations. See Section 13 and the product label for further information on disposal considerations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS CAS NO. % BY WEIGHT

Mepiquat chloride 24307-26-4 24

Other ingredients Trade Secret Trade Secret

Synonyms: Mepiquat chloride; N, N-dimethylpiperidinium chloride

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 for several minutes. Remove contact lenses, if present, continue rinsing eye. Call a poison control center or doctor for treatment advice if irritation occurs and persists.

If Swallowed: Rinse mouth. Call a poison control center or doctor for treatment advice. Do not give any liquid to the person. 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.

If Inhaled: Move person to fresh air. Call a poison control center or doctor for further treatment advice. If on Skin or Clothing: Take off contaminated clothing. Rinse skin with plenty of water for several minutes. Call a poison control center or doctor for treatment advice if irritation occurs and persists. Wash contaminated clothing before reuse.

Most Important symptoms/effects, acute and delayed: May cause mild eye and skin irritation. **Indication of Immediate medical attention and special treatment if needed, if necessary:** Should not be required.

5. FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: High volume water jet.

Special Fire Fighting Procedures: Firefighters should wear NIOSH 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): May produce gases such as oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. 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.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Ensure adequate ventilation. Remove clothing/Personal Protective Equipment (PPE) 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. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store in a manner as to prevent cross contamination with other crop protections products, fertilizers, food, and feed. Do not use or store near heat or open flame. Do not store below 32°F or above 100°F. Do not contaminate water, food, or feed by storage or 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: 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. Wear water proof gloves. 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:

•	OSHA		ACGIH		
Component	TWA	STEL	TWA	STEL	Unit
Mepiquat Chloride	NE	NE	NE	NE	
Other ingredients	NE	NE	NE	NE	

NE = Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red clear liquid
Odor: Odorless

Odor threshold: No data available 5.77 (1% solution) :Ha Melting point/freezing point: No data available Initial boiling point and boiling range No data available No data available Flash point: **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: 1.00 g/ml

Solubility(ies): Soluble
Partition coefficient: n-octanol/water: No data available

Autoignition temperature:

No data available

No data available

No data available

No data available

Viscosity: In Centistokes 2.043 (20°C) – 1.270 (40°C)

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:

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Do not allow product to freeze.

Incompatible Materials: None known.

Hazardous Decomposition Products: Under fire conditions may produce gases such as hydrogen

chloride and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin contact, eye contact, inhalation

Symptoms of Exposure:

Eye Contact: Mildly irritating based on toxicity studies.

Skin Contact: Minimally toxic and slightly irritating based on toxicity studies.

Ingestion: Slightly toxic if ingested based on toxicity studies. **Inhalation:** Low inhalation toxicity based on toxicity studies.

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

Toxicological Data:

ATE_{mix}: Oral LD₅₀ 11363.63 mg/kg

Data from laboratory studies of Mepiquat chloride conducted are summarized below:

Oral: Rat LD₅₀: 6,950 mg/kg (male) **Dermal:** Rat LD₅₀: >5,000 mg/kg **Inhalation:** Rat 4-hr LC₅₀: >20 mg/L **Eye Irritation:** Rabbit: Slightly irritating **Skin Irritation:** Rabbit: Slightly irritating

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

Subchronic (Target Organ) Effects: Excessive exposure to mepiquat chloride may affect the kidneys. **Carcinogenicity / Chronic Health Effects:** Mepiquat chloride caused kidney effects and/or neurological signs (e.g. spasms and/or tremors) in chronic toxicity studies in dogs and rats. Mepiquat chloride did not cause cancer in long-term animal studies.

Reproductive Toxicity: Mepiquat chloride was not a reproductive toxicant in a two generation study in

rats.

Developmental Toxicity: Mepiquat chloride was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

Genotoxicity: Mepiquat chloride does not cause genetic damage in bacterial or mammalian cell cultures

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

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data on Mepiquat Chloride (46%):

96-hour LC $_{50}$ Bluegill: 2,580 mg/l Bobwhite Quail 8-day Dietary LC $_{50}$: >4,600 ppm 96-hour LC $_{50}$ Rainbow Trout: 730 mg/l Bobwhite Quail Oral LD $_{50}$: > 2,134 mg/kg 48-hour EC $_{50}$ Daphnia: 50.8 mg/l Honey Bee LD $_{50}$: >100 ug/bee

Environmental Fate:

Mepiquat chloride is stable to hydrolysis and photolysis. Soil and aqueous photolysis are not routes of dissipation. Under aerobic conditions, mepiquat chloride appears to degrade rapidly to CO2. Under anaerobic conditions, it appears to be stable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

Container Handling and Disposal: Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

Nonrefillable containers larger than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

14. TRANSPORTATION INFORMATION

DOT

Non Regulated

<u>IMDG</u>

Non Regulated

<u>IATA</u>

Non Regulated

15. REGULATORY INFORMATION

EPA FIFRA INFORMATION

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. The hazard information required on the pesticide label is reproduced below.

Compact® 6X Mepiquat

Issuing Date: 6-June-2022

SAFETY DATA SHEET

The pesticide label also includes other important information, including directions for use.

EPA Pesticide Registration Number: 1381-274

Signal Word: Caution

Hazard statements: Harmful if swallowed or absorbed through the skin. Causes moderate eye

irritation. Avoid contact with eyes, skin, or clothing.

U.S. FEDERAL REGULATIONS

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

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

Not Hazardous

Section 313 Toxic Chemical(s):

None

Reportable Quantity (RQ) under U.S. CERCLA:

None

RCRA Waste Code:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not Listed.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 1 Flammability: 0 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). 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, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of Safety Data Sheet