

SAFETY DATA SHEET COMPACT® 6X

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:
WINFIELD SOLUTION, LLC
PO BOX 64589
ST. PAUL, MN 55164

EMERGENCY TELEPHONE NUMBERS:
(800) 424-9300, CHEMTREC
Transportation and spills, leak, fire, exposure or accident

PRODUCT NAME: COMPACT® 6X
CHEMICAL NAME: Mepiquat chloride
PRODUCT USE: Plant Growth Regulator
PRODUCT CODE: 19713-640-1381

MEDICAL EMERGENCY TELEPHONE NUMBER:
(877) 424-7452 (24 HRS)

NON-EMERGENCY BUSINESS INQUIRES:
(855) 494-6343
Mon - Fri 8am - 5pm (Central Standard Time)

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

HEALTH HAZARDS: Harmful if swallowed
Causes eye irritation
Causes skin irritation

PHYSICAL HAZARDS: None known

ENVIRONMENTAL HAZARDS: Harmful to aquatic life



SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT:	SYNONYM:	CAS NO.:	EC NO.:	RTECS:	% BY WT.:
ACTIVE INGREDIENT:					
Mepiquat Chloride: N,N-dimethylpiperidinium chloride	N,N- dimethylpiperidinium chloride	24307-26-4	246-147-6	TN4939200	23.5 %
OTHER INGREDIENTS:	N/A	N/A	N/A	N/A	76.5 %

SECTION 4 - FIRST AID MEASURES

Have the product container, label and / or Safety Data Sheets (SDS) with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information. First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 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 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.


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IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

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.

NOTE TO PHYSICIAN: None / Treat symptomatically.
If medical advice is needed, have product container or label at hand.

SECTION 5 - FIRE FIGHTING MEASURES

		National Fire Protection Rating (NFPA)				
		HEALTH	FLAMMABILITY	REACTIVITY		
	HEALTH			1		
	FLAMMABILITY			0		
	REACTIVITY			0		
		4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal				

EXTINGUISHING MEDIA: Dry chemical, CO₂, Foam, Water fog. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Cool closed containers exposed to fire with water spray, if possible. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

FIRE FIGHTING EQUIPMENT: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

FIRE AND EXPLOSION HAZARD: Flammability classification (OSHA 29 CFR 1910.1200): Non-combustible
Flash point: > 200°F
Lower flammable limit (% by volume): N/Av
Upper flammable limit (% by volume): N/Av

HAZARDOUS COMBUSTION PRODUCTS: Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides and halogenated compounds.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

ENVIRONMENTAL PRECAUTIONS:

Do not flush into surface water or sanitary sewer system. Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

IN CASE OF SPILLS OR LEAKS:

Control the spill at its source.

SMALL SPILL: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Prevent entry into waterways, sewers, basements or confined areas.

LARGE SPILL: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

HANDLING: **General Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Use with adequate ventilation. Wear chemical protective equipment when handling. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

STORAGE: Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store below 32°F or above 100°F. Do not store near children, food, foodstuffs, drugs or potable water supplies. Always use oldest stock first.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

COMPONENT	OSHA PEL	ACGIH TLV
Mepiquat Chloride: N,N-dimethylpiperidinium chloride	N/A	5 mg/m ³

THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

**SAFETY DATA SHEET
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VENTILATION: Investigate engineering techniques to reduce exposures. When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility / station and safety shower.
Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION: Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

INGESTION: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid getting wash water in eyes.

HAND PROTECTION: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Viton, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as the instructions / specs provided by the supplier of gloves.

SKIN PROTECTION: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

RESPIRATORY PROTECTION: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	REPORTED VALUE
Physical State	Liquid
Appearance / Color	Red
Odor	Odorless
Odor threshold	Not available
pH	6.0 – 7.0
Melting point	Not available
Freezing point	<20°F
Boiling point	>212°F
Flash point	>200°F
Evaporation rate	Not available
Flammability	Not available
Upper flammability/explosive limits	Not available
Lower flammability/explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	8.47 lbs. / gal.
Solubility in water	Complete in water
Solubility in organic solvents	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	7.5 cP
Explosive properties	Not available
Oxidizing properties	Not available
Dissociation Constant	Not available

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY:	Thermally stable at typical use temperatures and in closed containers.
CHEMICAL STABILITY:	Stable under recommended storage conditions.
HAZARDOUS REACTION	Will not occur.
POLYMERIZATION:	
CONDITIONS TO AVOID:	Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).
INCOMPATIBLE MATERIALS:	Avoid contact with: Strong acids. Strong bases. Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides and halogenated compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity values from a similar but not identical formulation.

ACUTE TOXICITY

Potential routes of exposure/potential health effects:	Skin contact, Eye contact, Ingestion
Acute Oral:	LD₅₀ (Rat): >5,000 mg/kg
Acute Dermal:	LD₅₀ (Rat): >5,000 mg/kg
Acute Inhalation:	LC₅₀ (Rat): >20 mg/L
Eye Irritation:	(Rabbit): Slightly irritating
Skin Irritation:	(Rabbit): Slightly irritating
Skin Sensitization:	(Guinea Pig): Non-sensitizers

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Chronic Toxicity:	Mepiquat chloride caused kidney effects and/or neurological signs in chronic studies in dogs and rats in excess of 100 mg/kg/day.
CARCINOGEN STATUS:	Not listed by IARC, OSHA, NTP, nor ACGIH
MUTAGENICITY:	No data available
TERATOGENICITY:	No data available
REPRODUCTIVE TOXICITY:	No data available
DEVELOPMENTAL TOXICITY:	No data available
SPECIFIC TARGET ORGAN TOXICITY- SINGLE EXPOSURE:	No data available / Not classified
SPECIFIC TARGET ORGAN TOXICITY- REPEATED EXPOSURE:	No data available / Not classified
OTHER HAZARDS EFFECTS:	No data available

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Mepiquat Chloride:
N,N-dimethylpiperidinium chloride

Ecotoxicity: Data on Mepiquat Chloride (46%)

Do not apply directly to water, to areas where surface water is present. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment.

ECO-ACUTE TOXICITY

FISH TOXICITY:

Rainbow Trout, LC₅₀	96 hour	730 mg/l
Bluegill Sunfish, LC₅₀	96 hour	2,580 mg/L
Daphnia magna, LC₅₀	48 hour	50.8 mg/L

BEE TOXICITY:

Bees, Acute LD₅₀ >100 µg/bee

AVIAN TOXICITY:

Mallard Duck, LD₅₀ >4,600 ppm
Bobwhite Quail, LD₅₀ >4,600 ppm

ALGAL TOXICITY:

Algae, LC₅₀ 96 hour No data available

SOIL ORGANISM TOXICITY:

Earthworm acute toxicity No data available

PERSISTENCE AND DEGRADABILITY: BIOACCUMULATION: MOBILITY IN SOIL:

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.

OTHER ADVERSE EFFECTS:

Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

**SAFETY DATA SHEET
COMPACT® 6X****SECTION 13 - DISPOSAL CONSIDERATIONS**

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14 - TRANSPORT INFORMATION

DOT:	Not Regulated
IMDG:	Not Regulated
IATA / ICOA:	Not Regulated
UN Identification No.:	Not applicable
Proper Shipping Name:	Not applicable
Hazard Class:	Not applicable
Packing Group:	Not applicable
Reportable Quantity:	Not applicable
Environmental Hazard:	Not applicable
Freight Description:	Plant Growth Regulator, Liquid, N.O.S.
ERG Guide No.:	171
Transport Information Note:	Non-regulated -See 49 CFR 173.132 (b) (3) & 1712.1-1 Appendix A

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15 - REGULATORY INFORMATION

OSHA Hazard Communication Standard:	This product contains hazardous components as defined under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200.
Pesticide Registration:	This product is a pesticide registered by the Environmental Protection Agency (EPA) and is subject to certain FIFRA 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.
EPA Reg. No.:	19713-640-1381
FIFRA Label Signal Word:	CAUTION
FIFRA Label Information:	KEEP OUT OF REACH OF CHILDREN
FIFRA Label Information:	Hazards to Humans and Domestic Animals CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

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EPCRA SARA TITLE III CLASSIFICATION:

SECTION 302: Extremely Hazardous Substance Notification: This material is not known to contain any Extremely Hazardous Substances.

SECTION 311 AND 312: Immediate (Acute) Health Hazard: Yes
 Delayed (Chronic) Health Hazard: No
 Fire Hazard: No
 Reactive Hazard: No
 Sudden Release of Pressure Hazard: No

SECTION 313 TOXIC RELEASE INVENTORY (TRI): This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

CERCLA/SARA 304 REPORTABLE QUANTITY (RQ): Not listed / Not available

RCRA HAZARDOUS WASTE CLASSIFICATION (40 CFR 261): Not listed / Not available

US EPA TOXIC SUBSTANCES CONTROL ACT (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CALIFORNIA PROP 65: Mepiquat Chloride: Listed as causing: Not listed
 N,N-dimethylpiperidinium chloride Listing date: Not listed
 Listing basis: Not listed

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISION DATE: April 28, 2020
SUPERCEDES DOCUMENT DATED: -
SECTIONS REVISED: -