



# SAFETY DATA SHEET

Product: MARC 14 TKO Algaecide and Herbicide

Form R0319

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER AND NAME:** MARC 14 TKO Algaecide and Herbicide

**SDS DATE:** 11/03/2021

**SUPPLIER:** Mid-American Research Chemical Corp.

**ADDRESS:** P. O. Box 927 • Columbus, NE 68602-0927

**PHONE:** 402-564-7104 **FAX:** 402-563-1290

**EMERGENCY PHONE:** InfoTrac 1-800-535-5053

**E-MAIL:** marc1@marc1.com **WEBSITE:** www.marc1.com

**RECOMMENDED USE:** Algaecide and herbicide

**PREPARED BY:** MARC

## SECTION 2: HAZARDS IDENTIFICATION

**WARNING:** May be harmful if swallowed or in contact with skin. Toxic to aquatic life. **HAZARD CLASSIFICATIONS:** Acute toxicity, oral 5; Acute toxicity, dermal 5; Environmental Hazards - Hazardous to the aquatic environment, acute 2. **PRECAUTIONARY STATEMENTS--IF ON SKIN:** Call a Poison Control Center/doctor if you feel unwell. **IF SWALLOWED:** Call a Poison Control Center/doctor if you feel unwell. Avoid release into the environment. Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Copper Ethanolamine Complex, Mixed	Mono Copper Ethanolamine Tri Copper Ethanolamine	14215-52-2 82027-59-6	27.9%

## SECTION 4: FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Rinse mouth out and 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 ON SKIN OR CLOTHING:** Wash with plenty of water. Call a poison control center or doctor if you feel unwell. Immediately take off all contaminated clothing and wash before reuse. If skin irritation or rash occurs: call a poison control center or doctor for treatment advice.

## SECTION 5: FIRE FIGHTING MEASURES

**Flash Point (PMCC):** N/A. **Flammable Limits (LFL-UFL):** Not determined. **Fire and Explosion Hazards:** Thermal decomposition will release irritating gases and fumes (see Section 10). **Extinguishing Medium:** Foam, CO<sub>2</sub>, dry chemical or water mist. Do not use high-volume water jet. **Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear. **Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Dike spill and contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this SDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike and contain the spill with inert material such as sand, earth, etc. Transfer liquid to containers and solid diking material to separate containers for recovery and disposal.

## SECTION 7: HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Avoid contact with skin, eyes or clothing. Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly



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and change into clean clothing. Wash outside of gloves before removing. Store product in original container in a secured, dry place separate from other pesticides, fertilizer, food and feed.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. **Protective Clothing:** Mixers, loaders, applicators, and other handlers must wear long-sleeved shirt and long pants, shoes and socks. **General:** Users must follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the products' concentrate. Do not reuse them.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Dark blue liquid  
**Odor:** Strong ammonia  
**Melting/freezing point:** Not available  
**Boiling point/Boiling range:** Not available  
**Flammability:** Not available  
**Flammability limits (upper/lower):** Not available  
**Flash point:** Not determined  
**Auto-ignition temperature:** Not available  
**Decomposition temperature:** Not available

**pH:** 9.7-9.9  
**Kinematic viscosity:** 13.5 centipose @ 24°C  
**Solubility:** Not available  
**Partition coefficient:** Not available  
**Vapor pressure:** Not available  
**Density:** 9.89 lbs./gal. @ 24°C  
**Relative vapor density:** Not available  
**Particle characteristics:** Not available

## SECTION 10: STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Excessive heat and freezing temperatures. **CHEMICAL STABILITY:** Stable under all normal use and storage conditions. **HAZARDOUS DECOMPOSITION PRODUCTS:** None when stored and handled as prescribed. Thermal decomposition may release irritating and toxic gasses and vapors. **INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents. **POLYMERIZATION:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

The information provided below is from a substantially similar product:

**ORAL TOXICITY (rat LD50):** 3,790 mg/kg.

**DERMAL TOXICITY (rat LD50):** > 2,000 mg/kg.

**INHALATION TOXICITY (rat LC50):** 5.9 mg/L (4-hour).

**EYE IRRITATION:** Non-irritating.

**SKIN IRRITATION:** Slightly irritating.

**SKIN SENSITIZATION:** Not a contact sensitizer.

**CARCINOGENICITY:** Not carcinogenic in a lifetime feeding study using rats and mice.

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**REPRODUCTIVE TOXICITY:** No evidence in animal studies.

## SECTION 12: ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. Certain water conditions including low pH (<6.5), low dissolved organic carbon (DCO) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

## SECTION 13: DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance. **CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.



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## SECTION 14: TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

**CONTAINER SIZES(S):** All  
**PROPER SHIPPING NAME:** Weed Killing Compound  
**HAZARD CLASS:** None  
**ID NUMBER:** None  
**PACKING GROUP:** None  
**LABEL STATEMENT:** None

## SECTION 15: REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

#### ENVIRONMENTAL HAZARDS

Waters treated with this product may be hazardous to aquatic organisms. This product is toxic to some fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to product runoff that contains this product. Do not contaminate water when disposing of equipment wash-waters or rinsate.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

#### SARA Title III – Section 302 Extremely Hazardous Substances

This material, as supplied, does not contain any substances regulated as hazardous substances under SARA Section 313.

#### SARA Title III – Section 311/312 Hazard Categories

Immediate

#### SARA Title III – Section 312 Threshold Planning Quantity

N/A

#### SARA Title III – Section 313 Reportable Ingredients

None

#### CERCLA –

None

#### CALIFORNIA PROP 65 STATUS –

This product contains no chemicals known to the State of California to cause cancer or reproductive harm.

#### CANADA –

This product has been classified in accordance with the hazard criteria of Products Regulations (CPR) and the SDS contains all the information required by CPR.

## SECTION 16: OTHER INFORMATION

**HMIS/NFPA Ratings:** Health = 1, Flammability = 1, Reactivity = 0.

**N/A** = Not Applicable, **N/D** = Not Determined, **N/E** = Not Established

### REFER TO THE PRODUCT LABEL FOR TERMS AND CONDITIONS OF USE. DISCLAIMER:

THE INFORMATION IN THIS SDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN AND IS BELIEVED TO BE CORRECT. CONTACT SUPPLIER TO CONFIRM IF YOU HAVE THE MOST CURRENT SDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, SUPPLIER EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED 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.