



SAFETY DATA SHEET

Product: MARC 86 SWIMMING POOL ALGAECIDE

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 86 SWIMMING POOL ALGAECIDE

SDS DATE: 09/01/16

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: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Keeps Pool Water Clear and Free of Visible Algae.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION:
Acute Tox. 4 (Oral)
Skin Corr. 1B



SIGNAL WORD: DANGER

HAZARD STATEMENTS: Harmful if swallowed. Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS: Do not breathe mist, wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection, protective clothing, protective gloves.

RESPONSE: **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **IF SWALLOWED:** Rinse mouth. **DO NOT INDUCE VOMITING!** Immediately call a doctor/POISON CENTER. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If exposed or concerned, if you feel unwell, call a doctor/POISON CENTER .

STORAGE: Store locked up.

DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME/INGREDIENT	CAS #	PERCENT	CLASSIFICATION (GHS-US)
Benzalkonium chloride	68391-01-5	3% - 7%	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 STOT SE 2, H37 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alkyl (68% C12, 32% C14) Dimethyl ethylbenzyl ammonium chloride	85409-23-0	3% - 7%	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Chronic 1, H410

Specific chemical identity and /or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.



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SECTION 4: FIRST AID MEASURES

FIRST AID MEASURES: If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned, get medical advice/attention.

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center or doctor/physician.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

INGESTION: Rinse mouth. **DO NOT INDUCE VOMITING!** Immediately call a POISON CENTER or doctor.

INHALATION: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a poison center or doctor.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SYMPTOMS INJURIES: Causes severe burns and eye damage. May cause an allergic skin reaction. May cause cancer.

SYMPTOMS AFTER EYE CONTACT: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

SYMPTOMS AFTER SKIN CONTACT: Caustic burns/corrosion of the skin.

SYMPTOMS AFTER INGESTION: Harmful if swallowed. Burns to the gastrointestinal mucosa. Gastrointestinal complaints. Nausea, diarrhea, vomiting.

SYMPTOMS AFTER INHALATION: Irritation of the respiratory tract. Dizziness, headache.

**INDICATION OF ANY IMMEDIATE MEDICAL
ATTENTION AND SPECIAL TREATMENT NEEDED:** Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: All extinguishing media allowed.

SPECIAL FIRE FIGHTING PROCEDURES: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

**SPECIAL PROTECTIVE EQUIPMENT &
PRECAUTIONS FOR FIREFIGHTERS:** Do not enter fire without proper protective equipment, including respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce: Nitrogen oxides, carbon oxides (CO and CO₂), ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

- GENERAL MEASURES:** Isolate from fire, if possible, without unnecessary risk.
- FOR NON-EMERGENCY PERSONNEL:** Safety glasses, gloves, protective clothing. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.
- EMERGENCY RESPONDERS/ EMERGENCY PROCEDURES:** Keep unauthorized personnel away. Equip cleanup crew with proper protection. Stop leak if safe to do so. Stop release. Ventilate area.
- ENVIRONMENTAL PRECAUTIONS:** Avoid release to the environment. Prevent soil and water pollution.
- PROTECTIVE EQUIPMENT:** Use personal protective devices as stated in Section 8.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:**
- FOR CONTAINMENT:** Contain released substance, pump into suitable containers.
- METHODS FOR CLEANING UP:** This material and its container must be disposed of in a safe way, and as per local legislation.

SECTION 7: HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING:** Obtain special instructions before use. Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.
- HYGIENE MEASURES:** Wash thoroughly after handling. Wash contaminated clothing before reuse.
- OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!**
- STORAGE:** Meet the legal requirements. Keep only in original container. Store in a dry, cool place in original container tightly closed. Keep locked up. Keep container closed when not in use. Protect from freezing. Store away from incompatible materials (see Section 10 of the SDS).
- INCOMPATIBLE PRODUCTS:** Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- EXPOSURE CONTROLS:**
- PERSONAL PROTECTIVE EQUIPMENT:** Use appropriate personal protective equipment when risk assessment indicates this is necessary.
- ENGINEERING CONTROLS/ VENTILATION:**
- RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment.
- EYES AND FACE PROTECTION:** Wear safety glasses.
- SKIN PROTECTION/PROTECTIVE GLOVES:** Wear appropriate gloves.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate protective clothing.
- WORK HYGIENIC PRACTICES:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	
PHYSICAL STATE:	Liquid
COLOR:	Clear, Colorless.
ODOR:	Slight detergent odor.
ODOR THRESHOLD:	No data available.
pH:	No data available.
MELTING/FREEZING POINT:	No data available.
BOILING POINT:	No data available.
FLASH POINT/METHOD USED:	>200°F Closed Cup
RELATIVE EVAPORATION RATE:	No data available.
FLAMMABILITY (solid, gas):	No data available.
EXPLOSIVE LIMITS:	No data available.
EXPLOSIVE PROPERTIES:	No data available.
OXIDIZING PROPERTIES:	No data available.
VAPOR PRESSURE (mmHg):	No data available.
RELATIVE DENSITY:	No data available.
RELATIVE VAPOR DENSITY AT 20°C:	No data available.
SPECIFIC GRAVITY/DENSITY:	0.992 g/ml
SOLUBILITY:	Soluble in water.
LOG POW:	No data available.
LOG KOW:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY:	No data available.
VISCOSITY, KINEMATIC:	No data available.
VISCOSITY, DYNAMIC:	No data available.
VOC CONTENT:	1.1%

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Thermal decomposition may produce - Upon combustion: CO and CO₂ are formed.

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: No additional information available.

POSSIBILITY OF HAZARDOUS REACTIONS: Same as REACTIVITY above.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): NA



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SECTION 11: TOXICOLOGICAL INFORMATION

SERIOUS EYE DAMAGE/IRRITATION:	Not classified.
SKIN CORROSION/IRRITATION:	Causes severe skin burns and eye damage.
RESPIRATORY OR SKIN SENSITIZATION:	Not classified.
GERM CELL MUTAGENICITY:	Not classified.
CARCINOGENICITY:	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):	Not classified.
ASPIRATION HAZARD:	Not classified.
SYMPTOMS AFTER INHALATION:	Irritation of the respiratory tract. Dizziness, headache.
SYMPTOMS AFTER SKIN CONTACT:	Caustic burns/corrosion of the skin.
SYMPTOMS AFTER EYE CONTACT:	Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
SYMPTOMS AFTER INGESTION:	Harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea, diarrhea, vomiting.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:	No additional information available.
PERSISTENCE AND DEGRADABILITY:	No additional information available.
BIOACCUMULATION POTENTIAL:	No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: **RECOMMENDATIONS:** Dispose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): PAILS
PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S.
HAZARD CLASS: 8
ID NUMBER: UN1760
PACKING GROUP: PGIII
LABEL STATEMENT: CORROSIVE

CONTAINER SIZES(S): GALLONS
PROPER SHIPPING NAME: DEODORANT OR DISINFECTANTS, N.O.I.
HAZARD CLASS: NONE
ID NUMBER: NONE
PACKING GROUP: NONE
LABEL STATEMENT: LIMITED QUANTITY



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 – This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

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. Following is the hazard information as required on the pesticide label:

DANGER: Causes severe eye damage and skin damage. Do not get in eyes, on skin or on clothing. Wear goggles and face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

SECTION 16: OTHER INFORMATION

TRAINING ADVICE: normal use of this product shall imply use in accordance with the instructions on the packaging.

Full Text of H-phrases:

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS/NFPA Ratings: Health = 2
Flammability = 1
Reactivity = 0
Other = -
Protection = -

REVISION DATE: 09/01/16

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.