



SAFETY DATA SHEET

Product: **MARC 185 SWIMMING POOL STABILIZER
& WATER CONDITIONER**

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 185 SWIMMING POOL STABILIZER & WATER CONDITIONER**

SDS DATE: 02/25/2020

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: Swimming pool water treatment.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Eye Irritation – Category 2A, Combustible dust.

SIGNAL WORD: WARNING. **HAZARD STATEMENTS:** May form combustible dust concentrations in air. Causes serious eye irritation. **PRECAUTIONARY STATEMENTS:** KEEP OUT OF REACH OF CHILDREN! Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear eye and face protection. **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 attention. Dispose of content and/or container in accordance with local, regional, national or international regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% by WT</u>
Isocyanuric Acid (Cyanuric Acid)	108-80-5	>98

SECTION 4: FIRST AID MEASURES

EMERGENCY OVERVIEW: A white granular powder. Exposure to dusts may irritate eyes, skin and respiratory tract. As a finely-divided organic compound, the accumulation of dusts of this product can create a serious hazard of air/dust explosion.

EYES: In case of eye contact, flush with plenty of water for 15 minutes. If irritation persists, seek medical attention.

SKIN: Remove all contaminated clothing. For skin contact, wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention if irritation develops or persists.

INGESTION: DO NOT INDUCE VOMITING! Have victim rinse mouth, if person is conscious. Never give anything by mouth to a victim who is unconscious or having convulsions. Contact a physician or poison control center if adverse effect occurs.

INHALATION: Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treatment is symptomatic and supportive. There is no specific antidote.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use any method suitable for the surrounding fire and other materials involved in the fire.

SPECIAL FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: It is important to note that as with all organic solids, large dust clouds of this product have the potential to ignite explosively. When involved in a fire, this material may decompose and produce irritating vapors, acrid smoke and toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, product emits toxic fumes of Isocyanuric acid gas, carbon monoxide, carbon dioxide and nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES: Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with product (see Section 10 for incompatibility information).

CLEANUP PROCEDURES: Small releases can be cleaned up in gloves, goggles and suitable body protection. Shovel the material into waste container. Thoroughly wash the area after a spill or leak clean-up. In case of a large spill (in which excessive dusts can be generated), clear the affected area, protect people, and respond with trained personnel. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean-up.



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EVACUATION PROCEDURES: Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Keep materials which burn away from spilled material. In case of large spills, follow all facility emergency response procedures.

SPECIAL PROCEDURES: Remove soiled clothing and laundry before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Do not breathe dust. Avoid all contact with skin and eyes. Wherever dust clouds may be generated, eliminate sparks, flames and other ignition sources. Use this product only with adequate ventilation. Wash thoroughly after handling. Care should be taken to avoid the accumulation of dusts, which can create a serious dust-explosion hazard. All equipment used in the handling of this material should be electrically grounded. Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store containers away from incompatible chemicals (See Section 10, Stability and Reactivity). Storage areas should be made of fire resistant materials. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Never store food, feed, or drinking water in containers that held this product. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: None.

ENGINEERING CONTROLS/VENTILATION: Use mechanical ventilation such as dilution and local exhaust.

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist.

EYE PROTECTION: Wear safety glasses with side shields or chemical goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear appropriate work gloves for type of operation.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Have an eyewash fountain and safety shower available in the work area.

WORK HYGIENIC PRACTICES: Use good hygiene practices (wash hands before and after using) when handling this material including changing and laundering work clothing after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	White granular powder.
PHYSICAL STATE:	Solid
COLOR:	White
ODOR:	Odorless
pH:	4.8 (saturated aqueous solutions)
VAPOR PRESSURE (mmHg):	Negligible.
VAPOR DENSITY (AIR = 1):	Not applicable.
BOILING POINT:	Sublimes at >329.12°C (625°F)
MELTING POINT:	360°C (680°F)
SOLUBILITY IN WATER:	0.3 g/100 mL at 25°C
SPECIFIC GRAVITY (H₂O = 1):	1.768 (water = 1)
FREEZING POINT:	Not applicable
PARTICLE SIZE:	Not available.
SOFTENING POINT:	Not applicable.
EVAPORATION RATE:	Not applicable.
BULK DENSITY:	0.73-0.83 g/cc
PERCENT VOLATILE:	Not available.
FLASH POINT:	Not combustible.
UPPER FLAMMABLE LIMIT (UEL):	Not applicable.
LOWER FLAMMABLE LIMIT (LEL):	Not applicable.
AUTO-IGNITION TEMPERATURE:	Not Applicable.
FLAMMABILITY CLASSIFICATION:	Combustible dust possible.
RATE OF BURNING:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Normally stable. Hygroscopic; absorbs moisture from air.

CONDITIONS TO AVOID: Moisture, heat and incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Incompatible with strong oxidizing agents. Isocyanuric Acid, Ammonia-chlorine mixtures are explosive if warmed or if chlorine is in excess, owing to formation of nitrogen trichloride. Hydrazine hydroxylamine and calcium nitride ignite in chlorines Isocyanuric Acid, and nitrogen triiodide may explode on contact with chlorines.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: When heated to decomposition, product emits toxic fumes of Isocyanuric acid gas, carbon monoxide, carbon dioxides and nitrogen oxides. **HAZARDOUS POLYMERIZATION:** Will not occur.



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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE & CHRONIC HEALTH HAZARDS:

A. General Product Information

Standard Draize Test (Skin-Rabbit) 500 mg/24 hours: Mild; Rinsed with Water (Eye-Rabbit) 20 mg/24 hours: Mild

May cause eye, skin, nose, throat and respiratory tract irritation.

Chronic: Long term skin overexposure to this product may lead to dermatitis (red, itchy skin).

B. Component Analysis – LD50/LC50

Isocyanuric Acid (108-80-5):

LD50 (Oral-Rat) 7700 mg/kg; LD50 (Oral-Mouse) 3400 mg/kg; LD50 (Oral-Mammal-species unspecified)> 5 gm/kg; LD50 (Intravenous-Rat)>100mg/kg; LD50 (Intravenous-Mouse)> 500 mg/kg; LD50 (Skin-Rabbit)> 5 gm/kg

C. Component Analysis – TDLo/TCLo/LD/LDLo

Isocyanuric Acid (108-80-5):

TDLo (oral, rat) = 55 g/kg/82 weeks/intermittent; equivocal tumorigenic agent; TDLo (subcutaneous, rat) = 27 g/kg/2 years/intermittent; equivocal tumorigenic agent; TDLo (oral, mouse) = 130 g/kg/2 years/intermittent; equivocal tumorigenic agent; TDLo (skin, mouse) = 2400 mg/kg; equivocal tumorigenic agent; TDLo (skin, mouse) = 138 g/kg/2 years/intermittent; equivocal tumorigenic agent; TD (oral, rat) = 60,750 mg/kg/ 81weeks/intermittent; equivocal tumorigenic agent; TD (subcutaneous, rat) = 36 g/kg/ 2 years/intermittent; equivocal tumorigenic agent;

CARCINOGENICITY:

A. General Product Information

150-300 mg/kg Isocyanuric Acid was fed to rats, cysticerian sarcomas were observed between 19-25 months. Fibroadenoma of mammary glands noted in 2 females. In mice fed 280-310 mg/kg, myeloid leukosis observed in 2/14 mice that had survived 23 months. Feeding studies in rats and mice suggest lower tumorigenic potential. Studies of subcutaneous application in mice at an application rate of 550 to 620 mg/kg show no tumor induction. Dermal application of two drops of 20% Isocyanuric Acid in benzene 3 times/week to mice is reported in which two animals developed liver tumors after 22 months.

B. Component Carcinogenicity

No information available.

Epidemiology: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Teratogenicity: Studies of the teratogenic and reproductive effects of Isocyanuric Acid in mice and rats examined show no dominant lethal response nor any significant difference in reproductive parameters between the experimental and control groups.

Other Toxicological Information: No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data are currently available for Isocyanuric Acid.

Environmental Fate: If released to the soil, Isocyanuric Acid is expected to be highly mobile. If released to water, it will be essentially nonvolatile. Isocyanuric acid biodegrades readily under a wide variety of natural conditions. If released to the atmosphere, it will exist in both the vapor and particulate phases. In the vapor phase, Isocyanuric Acid will degrade in the ambient atmosphere by reaction with photochemically produced hydroxyl radicals with an estimated half-life of 102 days. Physical removal of particulate Isocyanuric Acid from air is likely to occur through wet and dry deposition.

SECTION 13: DISPOSAL CONSIDERATIONS

Review federal, provincial, and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable. Not expected to be characterized as a hazardous waste under RCRA.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): BULK, SPECIAL

PROPER SHIPPING NAME: STABILIZER, EMULSIFIER, WATER-SOLUBLE, DRY

HAZARD CLASS: Not Applicable. **ID NUMBER:** Not Applicable

PACKING GROUP: Not Applicable. **LABEL STATEMENT:** None.



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: No additional information.

Component Analysis: This material contains no chemical required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4)

SARA 311/312 Tier II Hazard Ratings:

Component	CAS#	Fire Hazard	Reactivity Hazard	Pressure Hazard	Intermediate Health Hazard	Chronic Health Hazard
Isocyanuric Acid	108-80-5	No	No	No	Yes	Yes

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2, Flammability = 1, Reactivity = 0

REVISION DATE: 02/25/2020

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.