



SAFETY DATA SHEET

Product: **MARC 4 BROAD SPECTRUM DISINFECTANT TABLETS**

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 4 BROAD SPECTRUM DISINFECTANT TABLETS**

SDS DATE: 11/12/2018

SUPPLIER: Mid-American Research Chemical Corp.

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

PHONE: 402-564-7104 FAX: 403-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

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

RECOMMENDED USE: Disinfectant

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Eye irritant category 2A; specific target organ toxicity single exposure category 3 – may cause respiratory irritation.



SIGNAL WORD, HAZARD AND PRECAUTIONARY STATEMENTS: Warning

Hazard statements: Causes serious eye irritation. May cause respiratory irritation.

Precautionary statements: Avoid breathing dust, fumes. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection, face protection. If inhaled: Remove person to fresh air and keep comfortable for breathing. **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER, a doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to comply with local/regional/national/regulations.

Other: Direct contact with wet material or moist skin may cause severe irritation, pain and possibly burns. Dry material is less irritating. Not a skin sensitizer.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages and ingredients may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% by WT</u>
troclosene sodium	2893-78-9	30 - 65
adipic acid	124-04-9	10 - 35
sodium carbonate	497-19-8	2 - 12

SECTION 4: FIRST AID MEASURES

First-aid measures general: Take off immediately all contaminated clothing.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact: Wash with water and soap. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Call a physician immediately. Rinse mouth with water. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Symptoms/injuries: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Symptoms/injuries after inhalation: This material contained in this tablet in solid form is not expected to produce respiratory effects.

Particles of respiratory size are generally not encountered. The respirable fraction for the tablet active ingredient is typically less than 0.1% by weight for the granular and extra granular grades. If it is ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. If significant or prolonged exposure occurs, pulmonary edema may develop, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. Physical findings may include moist rales, low blood pressure and high pulse pressure. Severe cases may be fatal.

Symptoms/injuries after skin contact: Direct contact with wet material or moist skin may cause severe irritation, pain, and possibly burns. Dry material is less irritating than wet material. This material is not a skin sensitizer.

Symptoms/injuries after eye contact: This material is irritating to the eye. Direct contact may cause severe irritation, pain and burns,



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possibly severe and permanent damage including blindness. The degree of injury depends on the concentration and duration of contact.
Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Harmful if swallowed. Ingestion may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion. Edema of the epiglottis and shock may occur. Symptoms may be delayed. Keep watching the victim. Probably mucosal damage may contraindicate to the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Adapt extinguishing media to the environment. Water. MAJOR FIRE: Foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use water only; no dry chemical, CO2 or Halon. Using a 10% solution of sodium carbonate, thoroughly decontaminate fire-fighting equipment including all fire-fighting wearing apparel after the incident.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Use water only; no dry chemical, CO2 or Halon.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce: Chlorine. nitrogen. Nitrogen trichloride. Cyanogen chloride, unstabilized. carbon oxides. Phosgene. The product is non-reactive under normal conditions of use, storage and transport.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Evacuate unnecessary personnel.

PROTECTIVE EQUIPMENT: Protective clothing. Ventilate the area thoroughly, especially low lying areas (basements, work pits etc.). Protective goggles. Gloves.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Collect spillage. Recover mechanically the product. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean, dry containers for disposal. Do not close drums containing wet or damp material. Do not transport wet or damp material.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Where excessive dust may result, use approved respiratory protection equipment. Wear eye protection, face protection, protective clothing, Protective gloves. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid dust formation. Avoid breathing dust.

OTHER PRECAUTIONS: Wash contaminated clothing before reuse

STORAGE: Keep only in original container. Store in a dry place. Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. . Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment: Gloves. Protective clothing. Protective goggles. Use appropriate personal protective equipment when risk assessment indicates this is necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-

PHYSICAL STATE: Solid

COLOR: White

ODOR: Slight, chlorine-like

ODOR THRESHOLD: No data

pH: 5.5 to 6.5

MELTING/FREEZING POINT: NA



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BOILING POINT: NA
FLASH POINT/METHOD USED: None
EVAPORATION RATE: NA
FLAMMABILITY (solid, gas): None
FLAMMABILITY LIMITS: NA
VAPOR PRESSURE (mmHg): NA
VAPOR DENSITY (AIR = 1): NA
SPECIFIC GRAVITY (H₂O = 1): Not determined
SOLUBILITY IN WATER: Complete
PARTITION COEFFICIENT,
n-OCTANOL/WATER: Not determined
AUTO-IGNITION TEMPERATURE: Not determined
DECOMPOSITION TEMPERATURE: 225 to 250°C
VISCOSITY: NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Thermal decomposition may produce: Chlorine. nitrogen. Nitrogen trichloride. Cyanogen chloride, unstabilized. carbon oxides. Phosgene. The product is non-reactive under normal conditions of use, storage and transport.

STABILITY: Stable

CONDITIONS TO AVOID: Not determined.

INCOMPATIBILITY (MATERIAL TO AVOID): Acids. Contact with acids liberates toxic gas. NO contact with flammable substances. Strong bases. Combustible materials. The active ingredient in this preparation is a strong oxidizing agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidizable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis. Do not get water inside packaging.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Chlorine. nitrogen. Nitrogen trichloride. Cyanogen chloride, unstabilized. carbon oxides. Phosgene.

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Oral: Not classified.

Sodium Carbonate (497-19-8):

LD50 oral rat 2800 mg/kg (Rat; Experimental value)

LD50 dermal rabbit > 2000 mg/kg (Rabbit; Experimental value)

ATE CLP (oral) 2800.000 mg/kg body weight

Troclosene Sodium (2893-78-9):

ATE CLP (oral) 500.000 mg/kg body weight

Skin corrosion/irritation: Not classified

pH: 5.5 - 6.5 @ 20°C

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: This material contained in this tablet in solid form is not expected to produce respiratory effects.

Particles of respiratory size are generally not encountered. The respirable fraction for the tablet active ingredient is typically less than 0.1% by weight for the granular and extra granular grades. If it is ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. If significant or prolonged exposure occurs, pulmonary edema may develop, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. Physical findings may include moist rales, low blood pressure and high pulse pressure. Severe cases may be fatal.

Symptoms/injuries after skin contact: Direct contact with wet material or moist skin may cause severe irritation, pain, and possibly burns. Dry material is less irritating than wet material. This material is not a skin sensitizer.



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Symptoms/injuries after eye contact: This material is irritating to the eye. Direct contact may cause severe irritation, pain and burns, possibly severe and permanent damage including blindness. The degree of injury depends on the concentration and duration of contact.

Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Harmful if swallowed. Ingestion may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion. Edema of the epiglottis and shock may occur.

Likely routes of exposure: Skin and eyes contact.

SECTION 12: ECOLOGICAL INFORMATION

Sodium Carbonate (497-19-8)

LC50 fish 1 300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)

Threshold limit algae 1 242 mg/l (EC50; 5 days; Algae)

Persistence and degradability-sodium carbonate (497-19-8)

not applicable. Low potential for adsorption in soil.

Bioaccumulative potential- sodium carbonate (497-19-8)

Log Pow -6.19 (Estimated value)

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents/container to comply with local/regional/national regulations.

Waste disposal recommendations: Do not remove as household garbage. Additional information: Do not put product, spilled product, partially filled containers into the waste compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralize materials to a non-oxidizing state for safe disposal.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): Bottles

PROPER SHIPPING NAME: Deodorants or Disinfectants, Limited Quantity

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

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 does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2

Flammability = 0

Reactivity = 0

REVISION DATE: 11/12/2018

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

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.