



# SAFETY DATA SHEET

Product: MARC 87 NEUTRON NEUTRAL  
DISINFECTANT CLEANER

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 87 NEUTRON NEUTRAL DISINFECTANT CLEANER**

SDS DATE: 01/11/2019

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: Industrial/Institutional Disinfectant and cleaning product.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

**CLASSIFICATION:** Skin corrosion - Category 1, Eye Damage - Category 1

**Signal Word:** Danger. **Hazard Statements**-Keep out of reach of children. Read label and SDS before use. Causes severe skin burns and eye damage. **Precautionary Statements—Prevention**-Do not breathe mists. Wash hands thoroughly after handling. Wear protective gloves and clothing. Wear eye and face protection. **Response**-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water/shower. 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. Immediately call a poison center or a physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or a physician. **Storage**-Store locked up. **Disposal**-Dispose of contents and container in accordance with all local, regional, and national regulations. **Hazards Not Otherwise Specified**-Not applicable



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	3 - <5
Didecyl dimethyl ammonium chloride	7173-51-5	1 - <3
Di-(C8-10)-alkyl dimethyl ammonium chlorides	68424-95-3	1 - <3
Dioctyldimethylammonium chloride	5538-94-3	1 - <3
Other components below reportable levels		90 - 100

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**SKIN:** Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**INGESTION:** Call a POISON CONTROL CENTER or doctor/physician immediately. Rinse mouth. **DO NOT INDUCE VOMITING.** If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim 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. feel unwell.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Probable mucosal damage may contraindicate the use of gastric lavage.

### **MOST IMPORTANT SYMPTOMS/**

**EFFECTS, ACUTE AND DELAYED:** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**INDICATION OF IMMEDIATE  
MEDICAL ATTENTION AND SPECIAL**



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**TREATMENT NEEDED:** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**GENERAL INFORMATION:** Take off immediately all contaminated clothing. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## SECTION 5: FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Water fog, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>).

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use water jet as an extinguisher, as this will spread the fire.

**SPECIAL FIRE FIGHTING EQUIPMENT/ PROCEDURES:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.

**SPECIFIC METHODS:** Use standard firefighting procedures and consider the hazards of other involved materials.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** During fire, gases hazardous to health may be formed. No unusual fire or explosion hazards noted.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No hazardous decomposition products are known.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**EMERGENCY PROCEDURES:** Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Absorb with vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

**SMALL SPILLS:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spill to original containers for re-use. For waste disposal, see Section 13 of the SDS.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.

**ENVIRONMENTAL PRECAUTIONS:** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## SECTION 7: HANDLING AND STORAGE

**GENERAL HANDLING:** Do not breathe mist or vapor. Do not get this material in contact with eyes or skin. Do not taste or swallow. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

**OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!**

**STORAGE:** **DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE:** Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store locked up. Store in original



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tightly closed container. Store in well ventilated place away from incompatible materials (see Section 10 of the SDS).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**OCCUPATIONAL EXPOSURE LIMITS:** No exposure limits noted for ingredient(s).

**BIOLOGICAL LIMIT VALUES:** No biological exposure limits noted for the ingredient(s).

### APPROPRIATE ENGINEERING CONTROLS/

**VENTILATION:** Good general ventilation (typically 10 air changes per hour) should be used. 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. If exposure limits have not been established maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment.

**EYE/FACE PROTECTION:** Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respiratory, if needed.

**SKIN PROTECTION/PROTECTIVE GLOVES:** Wear appropriate chemical-resistant gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate chemical resistant clothing and/or appropriate thermal protective clothing, when necessary. Eye wash stations and emergency shower must be available when handling this product.

**WORK HYGIENIC PRACTICES:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE-</b>	Liquid
<b>PHYSICAL STATE:</b>	Liquid
<b>COLOR:</b>	Blue
<b>ODOR:</b>	Refreshing.
<b>ODOR THRESHOLD:</b>	Not available.
<b>DILUTION pH:</b>	6.0000 – 8.0000 (as is).
<b>MELTING/FREEZING POINT:</b>	Not available.
<b>BOILING POINT:</b>	200°F (93.3°C)
<b>FLASH POINT/METHOD USED:</b>	>200°F(>93.3°C) PMCC
<b>EVAPORATION RATE: (Water=1):</b>	Estimated slower than ethyl ether.
<b>UPPER/LOWER FLAMMABILITY/ OR EXPLOSIVE LIMITS:</b>	<b>FLAMMABILITY LIMIT-LOWER:</b> Not available. <b>FLAMMABILITY LIMIT-UPPER:</b> Not available. <b>EXPLOSIVE LIMIT – LOWER:</b> Not available. <b>EXPLOSIVE LIMIT – UPPER:</b> Not available.
<b>VAPOR PRESSURE (mmHg):</b>	Not Determined or Unknown.
<b>VAPOR DENSITY (AIR = 1):</b>	Estimated heavier than air.
<b>RELATIVE DENSITY:</b>	Not available.
<b>SPECIFIC GRAVITY (H2O = 1):</b>	1.004
<b>SOLUBILITY IN WATER:</b>	Complete
<b>AUTO-IGNITION TEMPERATURE:</b>	Not available.
<b>DECOMPOSITION TEMPERATURE:</b>	Not available.
<b>VISCOSITY:</b>	Less than 100 cps
<b>DENSITY:</b>	8.26 lb/gal @ 25C

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**STABILITY:** Material is stable under normal conditions.



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**CONDITIONS TO AVOID:** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No hazardous decomposition products are known.

**HAZARDOUS POLYMERIZATION:** No **CONDITIONS TO AVOID (POLYMERIZATION):** NA

## SECTION 11: TOXICOLOGICAL INFORMATION

### INFORMATION ON LIKELY ROUTES OF EXPOSURE:

**EYES:** Causes serious eye damage.

**SKIN:** Toxic in contact with skin. Causes severe skin burns.

**INGESTION:** Causes digestive tract burns. Harmful if swallowed.

**INHALATION:** Harmful if inhaled. May cause damage to organs by inhalation.

### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND

**TOXICOLOGICAL CHARACTERISTICS:** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### INFORMATION ON TOXICOLOGICAL EFFECTS:

**ACUTE TOXICITY:** Toxic in contact with skin. Harmful if inhaled. Harmful if swallowed.

**SKIN CORROSION/  
IRRITATION:** Causes severe skin burns and eye damage.

**SERIOUS EYE DAMAGE/  
EYE IRRITATION:** Causes serious eye damage.

### RESPIRATORY OR SKIN SENSITIZATION:

**RESPIRATORY SENSITIZATION:** Not available.

**SKIN SENSITIZATION:** This product is not expected to cause skin sensitization.

**GERM CELL MUTAGENICITY:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**CARCINOGENICITY:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

**US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29CFR 1910.1001-1050):** Not listed.

**REPRODUCTIVE TOXICITY:** This product is not expected to cause reproductive or developmental effects.

**SPECIFIC TARGET ORGAN TOXICITY-  
SINGLE EXPOSURE:** May cause damage to organs.

**SPECIFIC TARGET ORGAN TOXICITY-  
REPEATED EXPOSURE:** Not applicable.

**ASPIRATION HAZARD:** Not likely, due to the form of the product.

## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**PERSISTENCE AND DEGRADABILITY:** No data available on the degradability of this product.



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**BIOACCUMULATIVE POTENTIAL:** No data available.

**MOBILITY IN SOIL:** No data available.

**OTHER ADVERSE EFFECTS:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL INSTRUCTIONS:** 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. Offer for recycling, if available. Triple rinse container promptly after emptying.  
(For containers 5 gallons or less):  
Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.  
(For containers greater than 5 gallons):  
Triple rinse as follows: Fill container ¼ full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Sand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

**LOCAL DISPOSAL REGULATIONS:** Dispose in accordance with all applicable regulations.

**HAZARDOUS WASTE CODE:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**WASTE FROM RESIDUES/  
UNUSED PRODUCTS:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See Disposal Instructions).

**CONTAMINATED PACKAGING:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## SECTION 14: TRANSPORT INFORMATION

**GENERAL:** Note – shipper/officer is responsible for confirming appropriate proper shipping name, hazard classification (s), packing group, marking, labeling, placarding, packaging, and other regulatory requirements applicable to packages offered for transport. These requirements applicable to packages offered for transport. These requirements may vary depending on the quantity of material, packaging, mode of transportation, and carrier.

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

**CONTAINER SIZE(S):** BULK  
**PROPER SHIPPING NAME:** DEODORANT OR DISINFECTANTS, N.O.I. LIQUID  
**HAZARD CLASS:** NONE  
**ID NUMBER:** NONE  
**PACKING GROUP:** NONE  
**LABEL STATEMENT:** NONE

## SECTION 15: REGULATORY INFORMATION

**U.S. FEDERAL REGULATIONS:** This product is a U.S. EPA registered pesticide.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT) NOTIFICATION: Not listed.

U.S. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050): Not listed.

## SUPERFUND AMENDMENTS AND REAUTHORIZATIN ACT OF 1986 (SARA):

**Hazard Categories**  
Immediate Hazard – Yes  
Delayed Hazard – No  
Fire Hazard – No  
Pressure Hazard – No  
Reactivity Hazard - No

SARA 302 EXTREMELY  
HAZARDOUS SUBSTANCE: No

311/312 HAZARDOUS  
CHEMICAL: Yes

SARA 313 (TRI reporting): Not regulated.

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST: Not regulated.

CLEAN AIR ACT (CAA) SECTION 112 (r ) ACCIDENTAL RELESE PREVENTION (40 CFR 68.130): Not regulated.

SAFE DRINKING WATER ACT (SDWA); Not regulated.

FIFRA INFORMATION: 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 criterial 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.

**SIGNAL WORD: DANGER**

**HAZARD STATEMENT: CORROSIVE.** Causes irreversible eye damage and skin burns, May be fatal if absorbed through skin. Harmful if swallowed. Harmful if inhaled. This product is toxic to fish.

## SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 3  
Flammability = 1  
Reactivity = 0  
Other = -  
Protection = -

REVISION DATE: 01/11/2019

**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.