



# SAFETY DATA SHEET

Product: MARC 88 SPECTRUM JELLED DESCALER

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 88 SPECTRUM JELLED DESCALER**

SDS DATE: 10/31/18

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: Jelled descaler.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

**CLASSIFICATION:** Acute oral and dermal toxicity-category 4. Skin corrosion/irritation, serious eye damage/irritation – category 1A/1.



**SIGNAL WORD, HAZARD STATEMENTS AND PRECAUTIONARY STATEMENTS:** **DANGER:** Corrosive. Causes severe skin burns and eye damage. Harmful if swallowed or in contact with skin. May cause respiratory irritation. Do not breathe mists. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. 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. If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water. If swallowed, call a poison center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. Keep tightly closed in original container. Do not mix with chlorine bleach or other chemicals. Store in a dry, well-ventilated area.

**POTENTIAL HEALTH EFFECTS:** See Section 11 for more information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u>	<u>% WT.</u>
Hydrochloric Acid	7647-01-0	5 ppm	5 – 10%
Isopropyl Alcohol	67-63-0	400ppm TWA8	2 – 4%
Nonyl Phenol Ethoxylate	9016-45-9	not est.	0.5 – 3%

## SECTION 4: FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or physician treatment advice.

**SKIN:** Immediately take off contaminated clothing. Rinse skin and hair immediately with water for 15-20 minutes. Call a poison control center or physician for treatment advice. Wash contaminated clothing before reuse.

**INGESTION:** Rinse mouth. Immediately call poison control center or doctor for treatment advice. **DO NOT INDUCE VOMITING** unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air and keep comfortable for breathing. If person is not breathing, call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** N/A



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## SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** None.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Heat may cause evolution of hydrogen chloride fumes.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, carbon oxides.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**EMERGENCY PROCEDURES:** Flush area with water or soak up on solid absorbent, neutralize with soda ash.

**PROTECTIVE EQUIPMENT:** Use personal protective devices as stated in Section 8.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Same as EMERGENCY PROCEDURES. Dispose of in accordance with government regulations.

## SECTION 7: HANDLING AND STORAGE

**GENERAL HANDLING:** See Section 8. **DO NOT TAKE INTERNALLY.** Do not contact eyes or skin.

**OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!! CORROSIVE! CAREFULLY READ ENTIRE LABEL BEFORE USE! DO NOT MIX WITH CHLORINE BLEACH OR OTHER CHEMICALS!**

**STORAGE:** Store in original container in an area inaccessible to children.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u>
Hydrochloric Acid	7647-01-0	5 ppm
Isopropyl Alcohol	67-63-0	400ppm TWA8
Nonyl Phenol Ethoxylate	9016-45-9	not est.

**ENGINEERING CONTROLS:** N/A

**VENTILATION :** Use with adequate ventilation. Local exhaust if enclosed.

**RESPIRATORY PROTECTION:** N/A

**EYE PROTECTION:** Goggles.

**SKIN PROTECTION/PROTECTIVE GLOVES:** Rubber gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** As required to prevent skin contact.

**WORK HYGIENIC PRACTICES:** Wash thoroughly with soap and water after handling and before eating or drinking.



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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE- PHYSICAL STATE:</b>	Thickened liquid
<b>COLOR:</b>	Colorless
<b>ODOR:</b>	Wintergreen Fragrance
<b>ODOR THRESHOLD:</b>	N/A
<b>pH:</b>	N/A
<b>MELTING/FREEZING POINT:</b>	N/A
<b>BOILING POINT:</b>	212°F
<b>FLASH POINT/METHOD USED:</b>	None
<b>EVAPORATION RATE:</b>	<1 (butyl acetate = 1)
<b>FLAMMABILITY (solid, gas):</b>	N/A
<b>FLAMMABILITY LIMITS:</b>	N/A
<b>VAPOR PRESSURE (mmHg):</b>	N/A
<b>VAPOR DENSITY (AIR = 1):</b>	N/A
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	1.05
<b>SOLUBILITY IN WATER:</b>	Complete
<b>VISCOSITY:</b>	Thickened

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** None

**STABILITY:** Stable

**CONDITIONS TO AVOID:** N/A

**INCOMPATIBILITY (MATERIAL TO AVOID):** Alkalies neutralize effectiveness of product; chlorine products.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen chloride, carbon oxides.

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

## SECTION 11: TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY HYDROCHLORIC ACID:

**Oral:** ATEmix (): 900 mg/kg

**Dermal:** ATEmix (): 1,449 mg/kg

**Inhalation:** LC50 (Rat, 1 h): 3,124 mg/l

**Nonylphenol ethoxylate:** LD50 Oral-Rat = 3310 mg/kg, LD50 Dermal Rabbit > 2000 mg/kg

**Isopropanol:** LD50 Oral-Rat = 5840 mg/kg, LD50 dermal-Rabbit > 13000 mg/kg, LC50 Inhalation-Rat = 16000 ppm/8 hour

**EYES:** Corrosive to eyes; may cause permanent damage.

**SKIN:** May cause severe burns to skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Irritation of mucous membranes, burns.



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**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Skin diseases.

**CARCINOGENICITY:** N/A

**TOXICITY TO ANIMALS:** N/A

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICITY:

#### ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT:

##### FISH

**Specified substance(s):** Hydrochloric acid

LC50 (Western mosquitofish (*Gambusia affinis*), 24 h): 282 mg/l Mortality

LC50 (Western mosquitofish (*Gambusia affinis*), 48 h): 282 mg/l Mortality

LC50 (Western mosquitofish (*Gambusia affinis*), 96 h): 282 mg/l Mortality

LC50 (Green or European shore crab (*Carcinus maenas*), 48 h): 240 mg/l Mortality

LC50 (Common shrimp, sand shrimp (*Crangon crangon*), 48 h): 260 mg/l Mortality

Nonylphenol ethoxylate: Acute LC50 –Fish = 1 to 10 mg/L, Exposure time = 96 hours

**DEGRADABILITY:** Not Available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of in accordance with government regulations.

## SECTION 14: TRANSPORT INFORMATION

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

**CONTAINER SIZES(S):** Drums, Gallons

**PROPER SHIPPING NAME:** COMPOUND, CLEANING LIQUID (CONTAINS HYDROCHLORIC ACID)

**HAZARD CLASS:** 8

**ID NUMBER:** NA1760

**PACKING GROUP:** PGII

**LABEL STATEMENT:** CORROSIVE

**CONTAINER SIZES(S):** Quarts: Compound, Cleaning Liquid, Limited Quantity

## SECTION 15: REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** N/A

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** N/A

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** N/A

**311/312 HAZARD CATEGORIES:** N/A

**313 REPORTABLE INGREDIENTS:** N/A

## SECTION 16: OTHER INFORMATION

**HMIS/NFPA Ratings:** Health = 2; Flammability = 0; Reactivity = 0. **REVISION DATE:** 10/31/18.

**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.