



SAFETY DATA SHEET

Product: MARC 254 RING-B-GONE

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 254 RING-B-GONE**

SDS DATE: 11/01/18

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
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EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Toilet Bowl Cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Acute toxicity-dermal: Category 3. Skin corrosion/irritation-Category 1B. Causes severe skin burns and eye damage. Toxic if swallowed.

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **DANGER:** Contains ammonium bifluoride. Causes severe burns. Do not breathe mists.

HAZARD PICTOGRAMS:



HAZARD STATEMENT: Toxic if swallowed. Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENT:

PREVENTION: Do not breathe mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves and eye protection.

RESPONSE:

IF SWALLOWED: Immediately call a poison center/doctor.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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. Immediately call a poison center / doctor. Rinse mouth. Wash contaminated clothing before reuse.

STORAGE: Store locked up.

DISPOSAL: Dispose of contents/container in accordance with local regulation.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
Ammonium Bifluoride	1341-49-7	10 - 20
Nonyl Phenol Ethoxylate	127087-87-0	0.5 - 2

Specific percentages may be claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Immediate medical attention is required. Take victim immediately to hospital. Rinse eyes cautiously with plenty of water, also under eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. In case of difficulty opening the lids, administer an analgesic eye wash (oxybuprocaine). Calcium gluconate solution. Continue rinsing. Immediately call a poison center / doctor.

SKIN: Call a physician immediately. Take victim immediately to hospital. Immediately remove all contaminated clothing and shoes. Wash off with plenty of water. First treatment with calcium gluconate paste. Immediately call a poison center / doctor.



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Wash clothes before reuse.

INGESTION: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Give to drink a 1% aqueous calcium gluconate solution. Artificial respiration and/or oxygen may be necessary. Immediately call a poison center / doctor.

INHALATION: Remove casualty to fresh air and keep at rest. Oxygen or artificial respiration if needed. Victim to lie down in the recovery position, cover and keep person warm. Call a physician immediately. Take victim immediately to hospital.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptoms.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: This product is non-flammable.

SUITABLE EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA: Water may be ineffective.

SPECIAL FIRE FIGHTING PROCEDURES/EQUIPMENT: Use water spray to cool unopened containers. Wear self contained breathing apparatus for firefighting if necessary.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May be corrosive to metals. Gives off hydrogen by reaction with metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen fluoride, Ammonia, nitrogen oxides (NOx).

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Evacuate personnel to safe areas. Use personal protective equipment. Avoid breathing mist. Should not be released into the environment. Collect into suitable, closed containers (properly labelled) for disposal.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as EMERGENCY PROCEDURES.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Avoid contact with skin and eyes. Avoid inhalation of mist. Store in original container. Keep in a well-ventilated, dry place away from incompatible products. Keep in closed, properly labeled containers.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:
OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

SOURCE	INGREDIENT	TWA	STEL	PEAK
US OSHA Permissible Exposure Levels (PELs) -Table Z1	Ammonium bifluoride	2.5 mg/m3	Not available	Not available

INGREDIENT	ORIGINAL IDLH	REVISED IDLH
Ammonium Bifluoride	500 mg//m3	250 mg/m3

ENGINEERING CONTROLS: Handle in accordance with good hygiene and safety practice. Wash hands after using.

VENTILATION/RESPIRATORY PROTECTION: Respiratory protection is not expected to be necessary under normal conditions of use.



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EYE PROTECTION: Goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Impervious gloves. Suitable material. Neoprene

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

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling, before eating, smoking and using the lavatory.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-
PHYSICAL STATE: Liquid.
COLOR: Blue
ODOR: None
ODOR THRESHOLD: None
pH: 1-2
MELTING/FREEZING POINT: 32°F
BOILING POINT: 212°F
FLASH POINT/METHOD USED: None
EVAPORATION RATE: N/A
FLAMMABILITY (solid, gas): N/A
FLAMMABILITY LIMITS: **UPPER % BY VOLUME:** None
FLAMMABILITY LIMITS: **LOWER % BY VOLUME:** None
AUTO -IGNITION: Not available.
VOC: Not available.
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR = 1): Not available.
RELATIVE DENSITY: Not available.
DENSITY: Not available.
SPECIFIC GRAVITY (H₂O = 1): 1.03
SOLUBILITY IN WATER: Complete
VISCOSITY: Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Incompatible materials. Extremes of temperature.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids and strong bases, Silicate containing materials (glass, cement). Metals.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hydrogen fluoride, Ammonia, nitrogen oxides (NO_x).

HAZARDOUS POLYMERIZATION: No **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS: Ammonium Bifluoride:

ACUTE TOXICITY:

LD50 (Oral, Rat):	130 mg/kg bw
LD50 (Dermal, Rabbit):	Not available
LC50 (Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified.
Serious eye damage/Irritation:	Not classified.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
STOT – single exposure:	Not classified.



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STOT – repeated exposure: Not classified.
Aspiration hazard: Not classified.

EYES: Causes severe eye damage.

SKIN: Causes severe skin burns and corrosion/irritation.

INGESTION: Toxic if swallowed.

INHALATION: **DO NOT** breathe mists.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: Ammonium Bifluoride

ACUTE TOXICITY	TIME	SPECIES	METHOD	EVALUATION	REMARKS	
LC50	421.4 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

PERSISTENCE AND DEGRADABILITY: Not available.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: Not available.
RESULTS OF PBT&vPvB ASSESSMENT: The substance is not PBT / vPvB
OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): QUARTS
PROPER SHIPPING NAME: COMPOUND, CLEANING LIQUID
HAZARD CLASS: NONE
ID NUMBER: NONE
PACKING GROUP: NONE
LABEL STATEMENT: 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 = 1

REVISION DATE: 11/01/18

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.