



# SAFETY DATA SHEET

Product: MARC 152 NU-SOLV CONTACT CLEANER

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 152 NU-SOLV CONTACT CLEANER**

SDS DATE: 12/21/18

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](http://www.marc1.com)

RECOMMENDED USE: Contact and Circuit Board Cleaner.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable Aerosol: Category 1  
Dissolved Gas  
Skin Irritant: Category 2  
Eye Irritant: Category 2b  
Specific Target Organ Toxicity (Single Exposure): Category 3  
Aspiration Hazard: Category 1



**HAZARD STATEMENT(S): DANGER:** Extremely Flammable Aerosol Contains gas under pressure; May explode if heated. Causes eye and skin irritation. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: 0%

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/120F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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. Avoid breathing fumes, mist, vapors, and spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
Isopropyl Alcohol	67-63-0	7%-13%
Carbon Dioxide	124-38-9	1%-5%
Heptane	142-82-5	80%-90%

This product contains the following percentage of chemicals of unknown toxicity: 0%

## SECTION 4: FIRST AID MEASURES

**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 advice or attention.

**SKIN:** Immediately wash with plenty of soap and water. Seek medical attention if irritation develops.

**INGESTION:** Rinse mouth. **DO NOT INDUCE VOMITING !** Seek medical advice or attention.

**INHALATION:** Move victim to fresh air and keep comfortable for breathing. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention. Call a poison center or doctor if you feel unwell.

**ACUTE HEALTH HAZARDS:** Defatting of skin, dermatitis, blurred vision, and abdominal irritation.

**CHRONIC HEALTH HAZARDS:** None known.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.



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**GENERAL ADVICE:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, and foam.

**UNSUITABLE EXTINGUISHING MEDIA:** Water spray/stream.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section 8 for proper Personal Protective Equipment.

**EMERGENCY PROCEDURES: SPILL:** Clean up with non-combustible material like vermiculite, sand or earth. If many cans are opened remove ignition sources. Prevent spill from entering sewers, storm drains, and natural waterways.

**ACCIDENTAL RELEASE MEASURES:** Same as Emergency Procedures.

## SECTION 7: HANDLING AND STORAGE

### GENERAL HANDLING/

**STORAGE:** Protect from sunlight. Store in well ventilated place. Do not expose to temperatures exceeding 50°C/120°F. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks, open flames, and hot surfaces. No Smoking.

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Isopropyl Alcohol	500 ppm	400 ppm
Carbon Dioxide	5000 ppm	5000 ppm
Heptane	500 ppm	400 ppm

**ENGINEERING CONTROLS/VENTILATION:** Use only in well ventilated areas.

**RESPIRATORY PROTECTION:** Not required with adequate ventilation.

**EYE PROTECTION:** Safety glasses always recommended when using chemicals.

**SKIN PROTECTION/PROTECTIVE GLOVES:** Chemical resistant gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N/A

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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE-

**COLOR:** Clear  
**PHYSICAL STATE:** Liquid  
**ODOR:** Mild Odor  
**pH:** N/A  
**SOLUBILITY IN WATER:** Non-soluble



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SPECIFIC GRAVITY: (H2O = 1)	.71
MELTING/FREEZING POINT:	N/D
BOILING POINT:	Unknown.
FLASH POINT(METHOD USED:TCC)	N/D
EVAPORATION RATE:	>2.5
FLAMMABILITY (HOC):	Extremely Flammable Aerosol.
FLAMMABILITY LIMITS:	UPPER: N/D      LOWER: N/D
VAPOR PRESSURE (mmHg):	124
VAPOR DENSITY:	>2
PARTITION COEFFICIENT, n-OCTANOL/WATER:	N/D
VOLATILITY INCLUDING WATER (%):	100%
VOLATILE ORGANIC COMPOUNDS (VOC):	97%
DIELECTRIC STRENGTH (VOLTS):	25,000 Volts
AUTO-IGNITION TEMPERATURE:	N/D
DECOMPOSITION TEMPERATURE:	N/D
VISCOSITY:	N/A

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** If exposed to strong oxidizers, presents explosion hazard.

**CHEMICAL STABILITY:** Stable.

**CONDITIONS TO AVOID:** Sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong alkalis, strong oxidizing agents, some plastics, rubber.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur.

**HAZARDOUS POLYMERIZATION:** N/A

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

## SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Heptane (142-82-5) LD50 (Oral, Rat) 15000 mg/kg; LC50 (inhalation, Rat, 4hr) 103 g/m<sup>3</sup>; LD50 (Dermal, Rabbit) 2,000 mg/kg; Isopropyl Alcohol (67-63-0) LD50 (Oral, Rat) 5045 mg/kg; LD50 (Oral, Rabbit) 5045 mg/kg; LD50 (Dermal, Rabbit) 12800 mg/kg; LC50 (Inhalation, Rat, 8hr) 16000 ppm

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin

**EYES:** Causes irritation, blurred vision.

**SKIN:** Causes irritation, localized defatting.

**INGESTION:** Causes gastrointestinal irritation.

**INHALATION:** Causes mild irritation to the respiratory tract.

**MEDICAL CONDITION AGGRAVATED:** None known.

**ACUTE HEALTH HAZARDS:** Defatting of skin, dermatitis, blurred vision, and abdominal irritation.

**CHRONIC HEALTH HAZARDS:** None known.

**CARCINOGENICITY:**      OSHA: No      ACGIH: No      NTP: No      IARC: No      OTHER: N/A

## SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Isopropyl Alcohol (67-63-0) LC50 (Fathead Minnow, 96 hrs) 100,000 mg/L



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**BIODEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATION:** Components in this mixture can bioaccumulate in aquatic organisms.

**SOIL MOBILITY:** This product is mobile in soil.

**OTHER ECOLOGICAL HAZARDS:** N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL INSTRUCTIONS:** Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

**RCRA HAZARD CLASS:** Waste likely considered D001, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION 14: TRANSPORT INFORMATION

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

**CONTAINER SIZES(S):** Aerosol Can (11 oz.)  
**PROPER SHIPPING NAME:** CLEANING COMPOUND  
**HAZARD CLASS:** N/A  
**ID NUMBER:** N/A  
**PACKING GROUP:** N/A  
**LABEL STATEMENT:** LIMITED QUANTITY

## SECTION 15: REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986):** N/A

**SARA 311/312 HAZARD CATEGORIES:** None.

**SARA 313 REPORTABLE INGREDIENTS:** **Isopropyl Alcohol** (67-63-0)

**STATE REGULATIONS:** California's Proposition 65: None. **Heptane (142-82-5) LD50** California Director's List of Hazardous Substances, RTK, Minnesota, RTK, Pennsylvania RTK, Rhode Island RTK.

**Isopropyl Alcohol (67-63-0)** Right-To-Know acts for Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey, Tennessee, Connecticut hazardous material survey. **Isopropyl alcohol** Illinois toxic substances disclosure to employee act.

**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

## SECTION 16: OTHER INFORMATION

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

**REVISION DATE:** 12/21/18

**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.