



# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard

## HMIS SYMBOL

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

## HMIS

SEVERE  
SERIOUS  
MODERATE  
SLIGHT  
MINIMAL

## NFPA

EXTREME  
HIGH  
MODERATE  
SLIGHT  
INSIGNIFICANT

## NFPA SYMBOL

TOXICITY	1	2	FIRE
SPECIAL	B	0	REACTIVITY

## Product: MARC 162 MULTI-PURPOSE NON-CONDUCTIVE SURFACE CLEANER

A link to MARC's Consumer Product Safety Commission Certificate of Compliance may be found at [www.marc1.com/retail.htm](http://www.marc1.com/retail.htm).

### Section I - GENERAL INFORMATION

Company	Mid-American Research Chemical Corp.	Telephone No. (402)564-7104	Fax No. (402)563-1290
Address	P O Box 927 Columbus NE 68602-0927	Date 11/16/07	Formula Trade Secret

Info Trac 24 Hour Emergency Telephone No. 1-800-535-5053

### Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Component	CAS Number	Exposure TLV (Units)	%(Optional)
2-Butoxyethanol	111-76-2	1000 ppm	
Liquified petroleum gas	68476-86-8	600 ppm	
Ethyl Alcohol	64-17-5	200 ppm	

Balance of ingredients are non-hazardous or below reportable levels.

### Section III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (° F.)	N/A	Specific Gravity (H <sub>2</sub> O=1)	<1
Vapor Pressure (mm Hg)	102 @ 130°F	Melting Point (° F.)	N/A
Vapor Density (Air=1)	N/D	Evaporation Rate (Butyl Acetate=1)	<1

Solubility in Water

Predominantly.

Appearance and Odor

Aerosol spray with characteristic odor.

### Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (° F.) (Method Used)

>OF (Propellant); >100° F. (Concentrate, as established in "Ethyl Alcohol Handbook" by U.S.I.)

Extinguishing Media

Carbon dioxide, water spray, foam, or dry chemical.

Special Fire Fighting Procedures

Containers should be cooled with water to prevent vapor pressure build up. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers.

Unusual Fire and Explosion Hazards

Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. At elevated temperatures (over 54°C - 130°F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

N/A = Not Applicable

N/D = Not Determined

(Continued on Reverse Side)

**Section V - REACTIVITY DATA**

Stability	Unstable		Conditions to Avoid
	Stable	<b>X</b>	
Incompatibility (Materials to Avoid)		Oxidizing agents.	
Hazardous Decomposition or Combustion By-Products		Carbon monoxide, carbon dioxide.	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	<b>X</b>	
		Keep away from heat, sparks, and flames. Dropping of containers may cause bursting.	

**Section VI - HEALTH HAZARD DATA**

Route(s) of Entry:	Inhalation <b>X</b>	Eyes/Skin <b>X</b>	Ingestion <input type="checkbox"/>
Health Hazards (Acute & Chronic) <b>(SEE SIGNS AND SYMPTOMS BELOW)</b>			
<b>CHRONIC EFFECTS/TARGET ORGANS:</b> Nervous system, liver, kidneys, heart and/or circulatory system.			
Carcinogenicity:	NTP <input type="checkbox"/>	IARC Monographs <input type="checkbox"/>	OSHA Regulated <input type="checkbox"/>
Signs and Symptoms of Overexposure			
<b>Eyes:</b> May cause mild irritation. <b>Skin:</b> Can cause mild irritation. May cause allergic reactions and sensitization. May be harmful if absorbed through skin. <b>Inhalation:</b> Irritating to eyes, nose and respiratory tract. Harmful if inhaled. <b>Ingestion:</b> Not hazardous in normal industrial use. Can be fatal if swallowed.			
Medical Conditions Generally Aggravated by Exposure			

**Emergency and First Aid Procedures****Eyes:** Flush with plenty of water for at least 15 minutes. Get prompt medical attention.

**Skin:** Wash with plenty of soap and water for at least 15 minutes. **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention. If not breathing, give artificial respiration. **Ingestion:** Get immediate medical attention. **DO NOT** induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

**Section VII - PRECAUTIONS FOR SAFE HANDLING AND USE****Steps to be Taken in Case Material is Released or Spilled**

Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.

**Waste Disposal Method**

Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state and federal regulations.

**Precautions to be Taken in Handling and Storing****DO NOT TAKE INTERNALLY.**

Avoid breathing vapor. Keep away from heat & flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 120° F. (48.9° C). Store as Level 1 Aerosol (NFPA 30B). Do not spray into face, eyes, or toward other people.

**Other Precautions****KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!****Section VIII - CONTROL MEASURES****Respiratory Protection (Specify Type)**

None required if good ventilation is maintained. Use NIOSH approved respirator if exposure exceeds occupational limits.

Ventilation	Local Exhaust <b>X</b>	Mechanical (General) <input type="checkbox"/> Optional
Other		

**Protective Gloves:**

Chemical resistant is recommended.

**Eye Protection:**

Safety glasses are recommended.

**Other Protective Clothing or Equipment**

Wear impervious clothing to prevent skin contact.

**Work/Hygienic Practices**

Ensure strict sanitary conditions are conformed to when working around chemicals.

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.

d)

---

---

---

---

---

---

---

\_\_\_\_\_

=====  
  
-----  
-----  
-----  
  
-----  
  
=====  
-----  
  
-----  
  
-----  
  
-----  
  
-----  
  
-----  
  
-----  
  
-----  
  
=====  
  
-----  
  
-----  
  
-----  
  
=====  
  
-----  
-----  
-----  
-----  
  
-----

ned.