



Sold by:  
**CONTINENTAL RESEARCH CORP.**  
 PO Box 15204, St. Louis, MO 63110  
**1-800-325-4869**  
 www.crcorp.com

General Information: 314-644-1300  
 CHEMTREC: 800-424-9300

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## MATERIAL SAFETY DATA SHEET

### 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: MAD Part B Emulsifier and Degreaser  
 Product Code: CRC1  
 MSDS Date: February 16, 2010

### 2: COMPOSITION, INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TLV	STEL
1	Water 7732-18-5	65. - 75.	NE	NE	NE	NE
2	Nonylphenoxyethoxyethanol 9016-45-9, 9036-19-5	22 - 27	NE	NE	NE	NE
3	Alkyl Ammonium Chloride 68424-85-1	7 - 12	NE		NE	

### 3: HAZARDS IDENTIFICATION

#### EMERGENCY RESPONSE INFORMATION

HAZARDS	HMIS	NFPA
Toxicity	2	2
Fire	1	1
Reactivity	0	0
Special	C	

RATING	DEGREE OF HAZARD
4	Extreme
3	High
2	Moderate
1	Slight
0	Insignificant

SPECIAL EQUIPMENT LEGEND			
A	Safety Glasses	F	C + Dust Mask
B	A + Gloves	G	B + Respirator
C	B + Apron	H	F + Goggles
D	C + Face Shield	I	B + Respirator
E	B + Dust Mask	X	Ask Supervisor

#### HEALTH EFFECTS FROM OVEREXPOSURE

This Product is believed to be a hazardous material under current Department of Labor definitions.

#### Primary Routes of Exposure:

Skin Contact  
 Eye Contact  
 Inhalation

#### Eye Contact:

Direct contact with concentrated material can cause severe irritation or chemical burns.

#### Skin Contact:

Direct contact can cause slight irritation for short term exposure to severe irritation or sensitization after long term or repeated contact.

#### Inhalation:

Inhalation of mist or spray can cause irritation to nose, throat and lungs.



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#### 4: FIRST AID MEASURES

**Inhalation:**

Remove subject to fresh air.

**Eye Contact:**

Flush eyes with a large amount of water for at least 15 minutes. Consult a physician immediately if irritation persists.

**Skin Contact:**

Wash affected skin areas thoroughly with soap and water for at least 15 minutes. Apply skin cream. Consult physician if irritation persists. Remove and wash contaminated clothing before reuse.

**Ingestion:**

If swallowed give promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available drink large quantities of water. Avoid Alcohol. Consult a physician immediately. Never give anything by mouth to an unconscious person.

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#### 5: FIRE FIGHTING MEASURES

**FIRE AND EXPLOSIVE PROPERTIES:**

Flash Point:	None TCC
Auto-ignition Temperature:	None
Lower Explosion Limit:	None
Upper Explosion Limit:	None

**Unusual Hazards:**

Material will not burn but may spatter above boiling point.

**Extinguishing Agents:**

Use extinguishing media appropriate for surrounding media. Use water spray to cool adjacent fire exposed containers to avoid rupture and spattering.

**Personal Protective Equipment:**

As in any fire, wear self contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear to avoid exposure to fumes and vapors and to maintain TLV.

**Special Procedures:**

None.

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#### 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:**

Appropriate protective equipment must be worn when handling a spill of this material. See the PERSONAL PROTECTION MEASURES Section for recommendations. If exposed to material during clean-up operations, see the FIRST AID PROCEDURES Section for appropriate actions.

**Procedures:**

Keep spectators away. Floor may be slippery; use care to avoid falling.

Flush small spills to sewer using plenty of water.

Contain large spills immediately with inert materials (e.g. sand, earth, absorbent). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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#### 7: HANDLING AND STORAGE

**Handling:**



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Avoid contact with skin, eyes or clothing.  
 Remove and wash contaminated clothing before reuse.  
 Practice good personal hygiene: Wash after handling; shower at end of work period.

**Storage Conditions:**  
 Keep away from heat, sparks and open flame.  
 Protect from freezing and storage temperatures above 120°F to insure material homogeneity.  
 Keep Out of Reach of Children.  
 Store upright in original closed container. Do not contaminate water, food or feed by storage or disposal.

## 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

**Respiratory Protection:**  
 A respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.  
 Use of this product does not require respiratory protection under normal operating conditions.  
 Where vapors or mists may occur, wear a MSHA / NIOSH approved (or equivalent) half-mask air purifying respirator. Air purifying respirators should be equipped with organic vapor cartridges and dust and mist filters.

**Eye Protection:**  
 Wear chemical splash goggles (ANSI Z87.1 or approved equivalent).

**Hand Protection:**  
 Wear gloves resistant to water and detergent permeation.

**Other Protection:**  
 None required.

### FACILITY CONTROL MEASURES:

**Ventilation:**  
 Use normal room ventilation with a local exhaust or mechanical general ventilation at the point of use to minimize exposure.

**Other Protective Equipment:**  
 Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

### TYPICAL

State	Liquid
Appearance	Clear
Color	Bright Blue
Odor	Characteristic Detergent
Viscosity @ 75°F	Slightly Viscous
pH as is	7.0 to 9.5
pH @ Use Dilution	7.0 - 13.0
Specific Gravity @ 60°F	1.005
Density @ 60°F	8.4 Lbs/Gal
Vapor Density (Air = 1)	0.62 Water
Vapor Pressure	17 mm Hg @ 20°C = 68°F Water
Freezing Point	0°C = 32°F Water
Boiling Point	100°C = 212°F Water
Solubility in Water	Complete
Percent Volatility	Approximately 66%
Evaporation Rate (BAc = 1)	< 1 Water
VOC %	0%, = 0.0 Lbs/Gal
HAP %	0% = 0.0 Lbs/Gal
Available Alkalinity as Na <sub>2</sub> O	0 %



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Total Alkalinity as Na<sub>2</sub>O 0 %

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## 10: STABILITY AND REACTIVITY

**Instability:**

This material is considered stable.

**Hazardous Decomposition Products:**

There are no known hazardous decomposition products for this material except for Nitrous Oxides, Carbon Dioxide, Carbon Monoxide if burned.

**Hazardous Polymerization:**

This product will not undergo polymerization.

**Incompatibility:**

This product is functionally not compatible with anionic detergents and strong oxidizing agents.

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## 11: TOXICOLOGICAL INFORMATION

**Acute Data:**

Not Known

**Sensitization Data:**

Not Known

## ENVIRONMENTAL IMPACT:

**Environmental Toxicity:**

None Known.

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## 12: ECOLOGICAL INFORMATION

None Known

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## 13: DISPOSAL CONSIDERATIONS

**Procedure:**

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

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## 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Cleaning Compound, Liquid

Hazard Class: Not DOT Hazardous

Identification No.: None

Packing Group: None

Label: None

Emergency Response Guide No.: None [Use 153 as a guideline]

RQ: None

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## 15: REGULATORY INFORMATION

### WORKPLACE CLASSIFICATIONS

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled' product under the Canadian Workplace Hazardous Materials Information System (WHMIS).



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#### EMERGENCY PLANNING AND COMMUNITY RIGHT - TO KNOW (SARA TITLE 3)

##### Section 311/312 Categorizations (40 CFR 370)

This product is a hazardous material under 29 CFR 1910.1200, and therefore is covered by Title III of SARA.

##### Section 313 Information (40 CFR 372)

This product does not contain any chemical which is listed in Section 313 at or above the de minimis concentrations.

##### CERCLA INFORMATION (40 CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

##### RCRA INFORMATION

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

##### CHEMICAL CONTROL LAW STATUS

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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## 16: OTHER SUPPLEMENTAL INFORMATION

#### USE DIRECTIONS:

For general purpose cleaning dilute the concentrated product with water at a ratio of from 1 to 100 for light soil or as strong as 1 to 10 for very heavy soil conditions or between these dilutions to adjust for soil conditions . Spray, steam, brush, or wipe surface to be cleaned; apply agitation; drain; rinse with potable water or power spray; blow off excess water and let dry.

#### ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
BAc	Butyl acetate
NE	Not Established
ND	Not Determined
NA	Not Applicable

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