

**MIDWEST INDUSTRIAL SUPPLY, INC.**  
**P. O. BOX 8431**  
**CANTON, OHIO 44711 U.S.A.**

Emergency Phone Numbers: 330-456-3121

**M O F O A M <sup>TM</sup> R C**  
FOAMING DUST SUPPRESSANT

***MATERIAL SAFETY DATA SHEET***

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Please replace any other MSDS for this product with the attached MSDS:

**PRODUCT:** MoFoam<sup>TM</sup> RC

**MSDS NUMBER:** 2035

**UPDATED EFFECTIVE DATE:** November 1, 2001

**PREVIOUS VERSION MSDS NUMBER:** 2035

**PREVIOUS VERSION DATE:** June 27, 2000

**REASON FOR UPDATE:** Update and revise date.

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### SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

TRADE NAME: MoFOAM<sup>TM</sup> RC  
CHEMICAL NAME: SODIUM DIOCTYL SULFOSUCCINATE IN SOLVENTS  
SYNONYMS: RESIDUAL FOAMING DUST SUPPRESSANT  
CHEMICAL FAMILY: N/A  
MOLECULAR WEIGHT: N/A  
FORMULA: N/A  
CAS REGISTRY NO: Product a blend - No number assigned.

### SECTION II -- COMPOSITION/INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS REG. NO.</u>	<u>WT.%</u>
DIETHYLENE GLYCOL	111-46-6	**
ETHYL ALCOHOL	64-17-5	**
SODIUM DIOCTYL SULFOSUCCINATE	577-11-7	**

### SECTION III -- HAZARDS IDENTIFICATION

DIETHYLENE GLYCOL	TOXIC
ETHYL ALCOHOL	FLAMMABLE
SODIUM DIOCTYL SULFOSUCCINATE	IRRITANT

### SECTION IV -- FIRST AID MEASURES

**EYES:** Flush eyes with flowing water at least 15 minutes, get medical attention.

**INHALATION:** Move to fresh air if effects occur, and get medical attention.

**SKIN:** Flush with large amount of water or wash with soap and water. Seek medical attention if irritation persists.

**INGESTION:** Induce vomiting if large amounts are ingested. Consult medical personnel. (Never give fluids or induce vomiting if patient is unconscious or having convulsions.)

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**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on the judgment of the physician in response to reactions of the patient. Repeated, excessive exposure may aggravate pre-existing liver and kidney disease.

### **SECTION V -- FIRE FIGHTING MEASURES**

**FLASH POINT (TEST METHOD):** >212°F

**EXTINGUISHING MEDIUM:** Water fog, dry foam, CO<sub>2</sub>, dry chemical. DO NOT use direct water stream.

**SPECIAL FIREFIGHTING PROCEDURES:** Avoid breathing vapors or fumes. Wear self contained breathing apparatus and turn out gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extinguish all nearby sources of ignition.

### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

**SPILL AND LEAK PROCEDURES:**  
Dike and control spill. Transfer liquid to containers for recovery or disposal. Keep spills out of municipal sewers and open bodies of water.

### **SECTION VII HANDLING AND STORAGE**

**STORAGE:** Keep in a cool, dry, ventilated storage area and in closed containers.

**HANDLING:** Practice reasonable caution to avoid skin and eye contact. Avoid breathing vapors from hot material. Trace quantities of ethylene oxide (EO) may be present in this product. While these trace quantities could accumulate in headspace areas of storage transport vessels, they are not expected to create a condition which will result in EO concentrations greater than 0.5ppm (8 hour TWA) in the breathing zone of the workplace for appropriate applications. OSHA has established a permissible exposure limit of 1.0ppm (8 hour TWA) for EO. (Code of Federal Regulations Part 1910.1047 of Title 29.)

### **SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** If respiratory irritation is experienced, use an approved air-purifying respirator.

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**VENTILATION:** Good general ventilation should be sufficient. Local exhaust ventilation may be necessary for some operations.

**EYE PROTECTION:** Chemical splash goggles recommended.

**PROTECTIVE CLOTHING:** Impervious gloves recommended.

### SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

**BOILING/MELTING POINT @ 760 mm Hg:** >212°F

**VAPOR PRESSURE mm Hg @ 20°C:** 50

**SPECIFIC GRAVITY OR BULK DENSITY:** 1.06 - 1.09

**SOLUBILITY IN WATER:** Complete

**APPEARANCE:** Clear Liquid

**ODOR:** Slight odor

**pH:** N/A

### SECTION X -- STABILITY AND REACTIVITY

**STABILITY:** Stable

**MATERIALS TO AVOID:** Oxidizing materials, strong acids and alkalis.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning produces normal products of combustion; carbon dioxide, carbon monoxide, water, and oxides of sulfur and sodium.

**HAZARDOUS POLYMERIZATION:** Does not occur.

**CONDITIONS TO AVOID:** Heat, sparks, open flame.

**CORROSIVE TO METAL:** No

**OXIDIZER:** No

### SECTION XI -- TOXICOLOGICAL INFORMATION

<u>HMIS</u>				<u>NFPA</u>			
Health:	1	Reactivity:	0	Health:	1	Reactivity:	0
Flammability:	1	Special:	-	Flammability:	1	Special:	-

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### **WARNING STATEMENT**

**DANGER: HARMFUL OR FATAL IF SWALLOWED, CONTAINS DIETHYLENE GLYCOL  
MAY CAUSE KIDNEY AND NERVOUS SYSTEM DAMAGE  
MAY CAUSE EYE IRRITATION**

### **SECTION XI -- TOXICOLOGICAL INFORMATION (continued)**

#### **TOXICOLOGICAL DATA:**

##### **DIETHYLENE GLYCOL:**

Oral LD50 (rat) 20,760 mg/kg  
Primary skin irritant, (rabbit); skin absorption LD50 13,300 mg/kg  
Primary eye irritant, practically non-irritating

##### **ETHYL ALCOHOL:**

LC50 (rat) 13,000 ppm  
Oral LD50 (rat) 11,500 mg/kg  
Dermal LD50 (rabbit) 20 mg/kg

##### **SODIUM DIOCTYL SULFOSUCCINATE:**

Acute LD50 (rat) 1900-4000 mg/kg  
Acute LD50 (mouse) 2640 mg/kg  
Acute Dermal LD50 (rabbit) 10,000 mg/kg

#### **EFFECTS OF OVEREXPOSURE:**

##### **ACUTE:**

**EYES:** Essentially non-irritating to the eyes.

**SKIN:** Prolonged or repeated exposure is not likely to cause irritation.

**INHALATION:** At room temperature, exposures are likely due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

**INGESTION:** Single dose oral toxicity is moderate. The oral LD50 for rats is 20,760 mg/kg. Oral toxicity is expected to be moderate in humans even though tests with animals show a lower degree of toxicity. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts may cause injury, even death.

**SKIN ABSORPTION:** The LD50 for skin absorption in rabbits is 13,300 mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through the skin in

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harmful amounts. Repeated skin exposures may result in absorption of harmful amounts.

### **SECTION XI -- TOXICOLOGICAL INFORMATION (continued)**

#### **CHRONIC:**

##### **SYSTEMIC & OTHER EFFECTS:**

Repeated ingestion may cause severe kidney and also liver and gastrointestinal effects. Signs and symptoms of excessive exposure may be central nervous system effects, nausea and/or vomiting, anesthetic or narcotic effects. Reports of kidney failure and death in burn patients suggest that diethylene glycol may have been a factor. The use of topical applications containing diethylene glycol may not be appropriate in severely burned patients or individuals with impaired renal function. Observations in animals include formation of bladder stones after repeated oral doses. Based on data from long term animal studies diethylene glycol is not believed to pose carcinogenic risk to man. Birth defects are unlikely from exposure to diethylene glycol. Exposures having no effect on the mother should have no effect on the fetus. Diethylene glycol has not interfered with reproduction in animal studies. Results of in vitro (test tube) mutagenicity tests have been negative.

### **SECTION XII -- ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY RATING:** LC50 (96 hour) greater than 1000ppm  
Considered relatively harmless.

### **SECTION XIII -- DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Dispose of solids and the contaminated diking material according to local, state and federal regulations.

**CONTAINER DISPOSAL:** Do not re-use containers. Do not weld on metal containers.

### **SECTION XIV -- TRANSPORTATION INFORMATION**

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<b>D.O.T. PROPER SHIPPING NAME (49CFR172.101):</b>	None
<b>HAZARDOUS SUBSTANCE (40CFR116):</b>	N/A
<b>REPORTABLE QUANTITY (RQ):</b>	N/A
<b>D.O.T. HAZARD CLASSIFICATION (49CFR172.101):</b>	Non-regulated
<b>D.O.T. LABELS REQUIRED (49CFR172.101):</b>	None
<b>D.O.T. PLACARDS REQUIRED:</b>	None
<b>POISON CONSTITUENT (49CFR173.343):</b>	N/A
<b>BILL OF LADING DESCRIPTION:</b>	Foaming dust suppressant (diethylene glycol based)

### **SECTION XV-- REGULATORY INFORMATION**

MoFOAM<sup>TM</sup> RC is not a restricted article according to the Department of Transportation.

<b>EPA SARA Title III hazard class:</b>	None
<b>OSHA HCS hazard class:</b>	Irritant (29CFR1910.1200)
<b>EPA SARA Title III Section 313 (40CFR372) Toxic Chemicals present in quantities greater than the "de minimus" level are:</b>	None
<b>CERCLA Section 102(a) Hazardous Substance:</b>	None
<b>RCRA Hazardous Substance:</b>	None
<b>WHMIS Classification:</b>	D2, chronic toxicity hazard

### **SECTION XVI -- OTHER INFORMATION**

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulator requirements are subject of change and may differ from one location to another; it is the buyer's responsibility to ensure that it's activities comply with federal, state or provincial, and local laws.

#### **ABBREVIATIONS AND SYMBOLS**

<b>N.D. - Not Determined</b>	<b>N.A. - Not Applicable</b>	<b>N.T. - Not</b>
<b>Tested</b>		

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< - LESS THAN

> - MORE THAN