

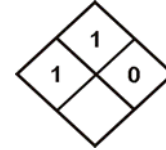
# MATERIAL SAFETY DATA SHEET

PRODUCT Grand



## NFPA HAZARD RATINGS\*

Health	1	Slight health hazard
Fire	1	Slightly combustible
Reactivity	0	Nonreactive



## SECTION 1: PRODUCT INFORMATION

Manufacturer: ADCO, Inc., 900 W. Main, Sedalia, MO 65301 (660) 826-3300  
EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 24 HRS 7 DAYS A WEEK; ADCO (800) 821-7556 (8-5 M-F)  
Intended Product Use: Injection detergent for hydrocarbon solvent  
Synonyms: None

## SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Ethylene glycol monobutyl ether	<20	111-76-2	25 ppm TWA	oral : 470 mg/kg (rat) dermal: 200 mg/kg (rabbit)

## SECTION 3: PHYSICAL DATA

Appearance: Clear, yellow/orange liquid  
Odor: Bland  
Boiling Point: No data  
Specific Gravity (20° C): 1.002  
Solubility in Water: Forms emulsion  
pH (20:80 in IPA/H<sub>2</sub>O Soln.): 6.2-6.6  
Vapor Pressure (mm Hg): No data  
Vapor Density: No data

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): >230 (TCC)  
Upper Flammable Limit: No data  
Extinguishing Media: Dry chemical, carbon dioxide, foam, water fog  
Lower Flammable Limit: No data  
Special Fire Fighting Procedures: Avoid directing strong water stream into product - may generate foam  
Unusual Fire and Explosion Hazards: High heat may produce noxious decomposition products

## SECTION 5: REACTIVITY DATA

Stability: Stable  
Conditions to Avoid: High heat  
Incompatibility (materials to avoid): Strong oxidizers, strong alkalis  
Hazardous Decomposition Products: Amines, ammonia, and irritating fumes  
Hazardous Polymerization: Will not occur.

## SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Low  
Effects of Overexposure:  
Acute: May cause drying or irritation if splashed into eyes or on prolonged or repeated contact with skin.  
Chronic: None  
Carcinogenicity: None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC, or OSHA.

\*Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

EXPOSURE LIMITS 25 ppm TWA (ethylene glycol monobutyl ether)	IRRITANCY OF PRODUCT Slight eye and skin	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY No components are listed by ACGIH, IARC, or OSHA
TERATOGENICITY No effects reported	REPRODUCTIVE TOXICITY No effects reported	MUTAGENICITY None reported	SYNERGISTIC PRODUCTS None reported

Based on known toxicity of components. No test data available on mixture.

## SECTION 7: PREVENTATIVE MEASURES

### SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation.

Ventilation: Normal industrial ventilation is adequate.

Protective Gloves: Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent.

Eye Protection: Use goggles or face mask if splashing is likely.

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

**STORAGE AND HANDLING:** Store in plastic or lined metal containers. Use plastic or stainless steel drum pump.

**SPILL OR LEAK PROCEDURES:** Small spills may be flushed to sewer with water. Larger spills - soak up on absorbent material and transfer to containers for disposal as nonhazardous waste.

**WASTE DISPOSAL METHOD:** Flush to sewer or dispose of material and container in municipal landfill in compliance with local, state, and federal regulations.

### RECOMMENDED PRECAUTIONARY LABELING:

**CAUTION:**

May cause irritation if splashed into eyes. May cause skin irritation on prolonged contact.

**FIRST AID:**

In case of contact with eyes, flush for 15 minutes with water. Wash off of skin with soap and water. If swallowed, do NOT induce vomiting.

**KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

This product is intended for professional use only by trained personnel.

## SECTION 8: FIRST AID

Inhalation: No treatment necessary.

Eyes: Flush eyes for 15 minutes with water.

Skin: Wash off of skin with soap and water.

Ingestion: Do NOT induce vomiting.

IF SYMPTOMS PERSIST, SEEK MEDICAL ASSISTANCE

## SECTION 9: SARA TITLE III

NOTE: This product does not contain any components which are under the reporting requirements of SARA Title III, Section 313.

## SECTION 10: PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or completeness is expressed or implied.

ADCO RESEARCH DEPARTMENT

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Date: December 5, 2005

Replaces MSDS of: \_\_\_\_\_