

Material Safety Data Sheet

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Printed Date:05/12/97

MSDS Number: 00000792 Rev:001 MSDS Status: ASSIGNED  
Mfr MSDS No: 1976 Mfr Date : 10/04/93  
Product: COREXIT 9527

MSDS Section(s)  
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Section 01 MANUFACTURER IDENTIFICATION

Product Name: COREXIT 9527  
Catalog ID : 0000135003 0 Part Number :9527  
Chem Family : TREATMENTS  
Synonyms : COREXIT 9527

Manufacturer: EXXON ENGRY CHEML LP  
Mfr Address : P.O. BOX 87

Mfr Contacts: SUGARLAND TX 77487-0087 US  
CHEMTREC NALCO/EXXON ENERGY  
Telephone No: EMERGENCY ALT PHONE FAX  
(800) 424-9300 (800) IM ALERT 713 263 7245

- Section 02 COMPOSITION & INGREDIENTS INFO

COMPONENT ETHYLENE GLYCOL MONOBUTYL ECAS No.:111-76-2 Pct: 40.00

ADDITIONAL INFORMATION ON COMPONENTS (E.G. EXPOSURE THRESHOLDS)  
OTHER TEXT  
ETHYLENE GLYCOL MONOBUTYL ETHER  
EQUAL TO 40 PCT

- Section 03 HAZARDS IDENTIFICATION

	HAZARDS IDENTIFICATION	Procedure
ACUTE EYE CONTACT	:SEE BELOW	
ACUTE INGESTION	:LOW ORDER OF TOXICITY.	
ACUTE INHALATION	:SEE BELOW	
ACUTE SKIN CONTACT	:SEE BELOW	
CHRONIC	:SEE BELOW	

EMERGENCY OVERVIEW  
ACUTE EYE CONTACT  
IRRITATING, AND MAY INJURE EYE TISSUE IF NOT REMOVED  
PROMPTLY.  
ACUTE SKIN CONTACT  
LOW ORDER OF TOXICITY.  
IRRITATING.  
MAY BE ABSORBED THROUGH SKIN TO PRODUCE HEMOLYTIC  
ANEMIA AND KIDNEY DAMAGE EVIDENCED BY PALENESS AND  
POSSIBLY RED COLORATION OF THE URINE.  
ACUTE INHALATION

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## EMERGENCY OVERVIEW

IRRITATING TO EYES AND RESPIRATORY TRACT IN HIGH CONCENTRATIONS. VAPORS AND/OR AEROSOLS WHICH MAY BE FORMED AT ELEVATED TEMPERATURES MAY CAUSE SYSTEMIC EFFECTS.

## CHRONIC

OVEREXPOSURE BY INHALATION AND/OR DERMAL CONTACT MAY RESULT IN DAMAGE TO THE BLOOD AND KIDNEYS.

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- Section 04 FIRST AID MEASURES

	FIRST AID MEASURES AND INSTRUCTIONS	Procedure
EYE CONTACT	:SEE BELOW	
INGESTION	:SEE BELOW	
INHALATION	:SEE BELOW	
NOTES TO PHYSICIAN	:SEE BELOW	
SKIN CONTACT	:SEE BELOW	

INSTRUCTIONS TO MEDICAL PERSONNEL OR ADDITIONAL INFORMATION  
NOTES TO PHYSICIAN

THE COMPOSITION OF THIS MIXTURE MAY BE PROPRIETARY INFORMATION. IN THE EVENT OF A MEDICAL EMERGENCY, COMPOSITIONAL INFORMATION WILL BE PROVIDED TO A PHYSICIAN OR NURSE.

## EYE CONTACT

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

## SKIN CONTACT

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABLE. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AFTER FLUSHING HAS BEGUN. GET PROMPT MEDICAL ATTENTION.

## INHALATION

USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION.

## INGESTION

IF SWALLOWED, AND INDIVIDUAL IS CONSCIOUS, INDUCE VOMITING. GET PROMPT MEDICAL ATTENTION. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Section 05 FIRE FIGHTING MEASURES

	FIRE & EXPLOSION HAZARD DATA	VALUE	UOM	Procedure
AUTO IGNITE TEMP	:NOTE: NOT AVAILABLE			
EXPLOSION HAZARD	:SEE BELOW			
FIRE FIGHTING PROC	:SEE BELOW			

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Section 05 FIRE FIGHTING MEASURES

FIRE & EXPLOSION HAZARD DATA		VALUE	UOM	Procedure
FLASH POINT F	:METHOD: TAG CC	163.0000	DEGF	
LOWER EXPLOSION LEL	:	1.1000		
NFPA FLAMMABILITY	:2	9999.9999-		
NFPA HEALTH	:2	9999.9999-		
NFPA REACTIVITY	:0	9999.9999-		
UPPER EXPLOSION UEL	:	10.6000		

PROCEDURES AND GUIDANCE IN AVOIDING AND FIGHTING FIRES  
EXPLOSION HAZARD

COMBUSTIBLE LIQUID, CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT.  
TOXIC GASES WILL FORM UPON COMBUSTION.

FIRE FIGHTING PROC

USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. ISOLATE "FUEL" SUPPLY FROM FIRE. USE ALCOHOL TYPE FOAM, DRY CHEMICAL OR WATER SPRAY TO EXTINGUISH FIRE. RESPIRATORY AND EYE PROTECTION REQUIRED FOR FIRE FIGHTING PERSONNEL.

Section 06 ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES DATA		Procedure
LAND SPILL	:SEE BELOW	
WATER SPILL	:SEE BELOW	

ACTIONS TO MINIMIZE ADVERSE EFFECT OF ACCIDENTAL SPILLS/REALEASES  
LAND SPILL

ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL, IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS IMPLEMENT CLEANUP PROCEDURES; FOR LARGE SPILLS IMPLEMENT CLEANUP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING (SEE SECTION 7) NOTIFY THE NATIONAL RESPONSE CENTER. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A SUITABLE ABSORBENT. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL

ELIMINATE SOURCES OF IGNITION. WARN OCCUPANTS AND SHIPPING IN SURROUNDING AND DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD AND REQUEST ALL TO STAY CLEAR.

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 APPROPRIATE PRACTICES FOR SAFE HANDLING AND STORAGE

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 - Section 07 HANDLING AND STORAGE

	SPECIAL PRECAUTIONS	Procedure
HANDLING	:SEE BELOW	
OTHER PRECAUTIONS	:SEE BELOW	
STORAGE	:SEE BELOW	

APPROPRIATE PRACTICES FOR SAFE HANDLING AND STORAGE  
 HANDLING

"EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

ELECTROSTATIC ACCUMULATION HAZARD:  
 UNKNOWN, USE PROPER GROUNDING PROCEDURE  
 KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE.

DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. IT IS NOT KNOWN IF THIS MATERIAL IS A STATIC ACCUMULATOR. THEREFORE, USE PROPER GROUNDING PROCEDURES. DO NOT PRESSURIZE, CUT, HEAT, OR WELD CONTAINERS. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

STORAGE

STORAGE TEMPERATURE, DEG F:  
 AMBIENT  
 STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.  
 DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT.

OTHER PRECAUTIONS

THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE OXIDE (CAS NO. 75-21-8), A CONDITION WHICH CREATES THE POTENTIAL FOR ACCUMULATION OF ETHYLENE OXIDE IN THE HEAD SPACE OF SHIPPING AND STORAGE CONTAINERS AND IN ENCLOSED AREAS WHERE THE PRODUCT IS BEING HANDLED OR USED. ETHYLENE OXIDE IS CONSIDERED BY OSHA, IARC, AND NTP AS A POTENTIAL CARCINOGEN FOR HUMANS. ETHYLENE OXIDE MAY ALSO PRESENT REPRODUCTIVE, MUTAGENIC, GENOTOXIC, NEUROLOGIC AND SENSITIZATION HAZARDS IN HUMANS. IF THIS PRODUCT IS HANDLED WITH ADEQUATE VENTILATION, THE PRESENCE OF THESE TRACE AMOUNTS IS NOT EXPECTED TO RESULT IN ANY SHORT OR LONG

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 APPROPRIATE PRACTICES FOR SAFE HANDLING AND STORAGE  
 TERM HAZARDS.

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 - Section 08 EXPOSURE CNTL/PERSONAL PROTCTN

	EXPOSURE CONTROLS/PERSONAL PROTECTION	Procedure
PROTECTIVE EQUIPME	:SEE BELOW	
THRESHOLD LIMIT	:SEE BELOW	
VENTILATION	:SEE BELOW	

OTHER PRACTICES OR EQUIPMENT USEFUL IN MINIMIZING WORKER EXPOSURE  
 VENTILATION

THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL PROCESS EMISSIONS NEAR THE SOURCE. LABORATORY SAMPLES SHOULD BE STORED AND HANDLED IN A LAB HOOD. PROVIDE MECHANICAL VENTILATION OF CONFINED SPACES. SEE RESPIRATORY PROTECTION RECOMMENDATIONS.

PROTECTIVE EQUIPMENT

FOR OPEN SYSTEMS WHERE CONTACT IS LIKELY, WEAR CHEMICAL RESISTANT GLOVES, A CHEMICAL SUIT, RUBBER BOOTS, AND CHEMICAL SAFETY GOGGLES PLUS A FACE SHIELD. WHERE CONTACT MAY OCCUR, WEAR LONG SLEEVES, CHEMICAL RESISTANT GLOVES, AND A FACE SHIELD. WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN IN THIS SECTION AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, NIOSH/MSHA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHALATION.

THRESHOLD LIMIT

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:  
 A TWA OF 25 PPM (121 MG/M3) FOR 2-BUTOXYETHANOL (ETHYLENE GLYCOL MONOBUTYL ETHER) (SKIN).

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 Section 09 PHYSICAL & CHEMICAL PROPERTIES

	PHYSICAL & CHEMICAL PROPERITES	VALUE	UOM
BOILING POINT F	:CALCULATED	340.0000	DEGF
COLOR	:AMBER		
EVAPORATION RATE	:N-BU ACETATE=1: CALCULATED	.1000	
FREEZING POINT F	:POUR POINT	45.0000-	DEGF
MELTING POINT F	:POUR POINT	45.0000-	DEGF
ODOR	:GLYCOL ETHER	9999.9999-	
PHYSICAL STATE/FORM	:LIQUID	9999.9999-	
SOLUBILITY	:SOLUBLE	9999.9999-	
SPECIFIC GRAVITY	:SEE BELOW	1.0000	
VISCOSITY	:SEE BELOW	22.0000	

ADDITIONAL CHARACTERISTICS (E.G. APPEARANCE AND ODOR)  
 VISCOSITY

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ADDITIONAL CHARACTERISTICS (E.G. APPEARANCE AND ODOR)  
OF LIQUID, CST AT DEG F: AT 100 CANNON-FENSKE  
OF LIQUID, CST AT DEG F: AT 150 CANNON-FENSKE  
SPECIFIC GRAVITY  
AT 60 CALCULATED  
OF VAPOR, AT 1 ATM (AIR=1): GREATER THAN

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Section 10 STABILITY AND REACTIVITY

STABILITY AND REACTIVITY DATA  
DECOMPOSITION :SEE BELOW  
INCOMPATIBILITY :STRONG OXIDIZING AGENTS  
POLYMERIZATION :WILL NOT OCCUR  
STABILITY :STABLE  
STABILITY AVOID :NONE

CONDITIONS TO BE AVOIDED/MATERIALS CHANGING INTRINSIC STABILITY  
DECOMPOSITION  
SMOKE, FUMES, CARBON MONOXIDE, CARBON DIOXIDE.  
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

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- Section 11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION AND DATA Procedure  
TOXICITY DATA :SEE BELOW

OTHER EFFECTS FROM OVEREXPOSURE  
TOXICITY DATA  
PLEASE CALL THE NON-EMERGENCY TELEPHONE NUMBER IF  
INFORMATION IS REQUIRED.  
PLEASE REFER TO SECTIONS 5,6 AND 15 FOR DISPOSAL AND  
REGULATORY INFORMATION.

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- Section 12 ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION AND DATA Procedure  
ENVIRONMENTAL INFO :SEE BELOW

OTHER EFFECTS ON PLANTS, ANIMALS, AND ENVIRONMENT  
ENVIRONMENTAL INFO  
PLEASE CALL THE NON-EMERGENCY TELEPHONE NUMBER IF  
INFORMATION IS REQUIRED.

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- Section 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	DISPOSAL INFORMATION AND DATA :SEE BELOW	Procedure
DETERMINING APPROPRIATE MEASURES		
WASTE DISPOSAL		
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.		

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- Section 14 TRANSPORTATION INFORMATION

DOMESTIC (DOT)	SHIPPING CLASSIFICATION INFORMATION :SEE BELOW	Procedure
OTHER TRANSPORT INFORMATION		
DOMESTIC (DOT)		
LOADING/UNLOADING TEMPERATURE, DEG F:		
AMBIENT		
STORAGE/TRANSPORT PRESSURE, MMHG:		
ATMOSPHERIC		
LOADING/UNLOADING VISCOSITY, CST:		
NOT AVAILABLE		
DEPARTMENT OF TRANSPORTATION (DOT):		
DOT SHIPPING DESCRIPTION: ETHYLENE GLYCOL MONOBUTYL ETHER SOLUTION, 6.1, UN 2369, III		

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Section 15 REGULATORY INFORMATION

CERCLA	REGULATIONS AFFECTING MATERIAL :SEE NOTES
Notes	
CERCLA	

IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS  
ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE  
PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL  
RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) AND  
MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY  
CALLING 800-424-8802.

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Notes

THE REPORTABLE SPILL QUANTITY OF THIS PRODUCT IS 2 POUNDS.

IT CONTAINS:

ETHYLENE GLYCOL MONOBUTYL ETHER.

OSHA

:SEE NOTES

Notes  
OSHA

THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29 CFR 1910.1200, BASED ON THE FOLLOWING COMPOSITIONAL INFORMATION:.

OSHA HAZARD	COMPONENT
COMBUSTIBLE LIQUID	2-BUTOXYETHANOL
EYE AND SKIN IRRITANT	2-BUTOXYETHANOL
PEL/TLV	2-BUTOXYETHANOL

OSHA REGULATION 29 CFR 1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

A TWA OF 25 PPM (120 MG/M3) FOR 2-BUTOXYETHANOL (ETHYLENE GLYCOL MONOBUTYL ETHER) (SKIN).

THE RECOMMENDED PERMISSIBLE EXPOSURE LEVELS INDICATED ABOVE REFLECT THE LEVELS REVISED BY OSHA IN 1989 OR IN SUBSEQUENT REGULATORY ACTIVITY. ALTHOUGH THE 1989 LEVELS HAVE SINCE BEEN VACATED BY THE 11TH CIRCUIT COURT OF APPEALS, NALCO/EXXON RECOMMENDS THAT THE LOWER EXPOSURE LEVELS BE OBSERVED AS REASONABLE WORKER PROTECTION.

SARA

:SEE NOTES

Notes  
SARA

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SARA TITLE III:

UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES:

IMMEDIATE HEALTH, DELAYED HEALTH, FIRE.

STATE :SEE NOTES

Notes  
STATE

THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS (40 CFR 370) IF THRESHOLD QUANTITY CRITERIA ARE MET.

THIS PRODUCT CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:

COMPONENT	CAS #	MAX.%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	40.0

TSCA :SEE NOTES

Notes  
TSCA

COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

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Section 16 OTHER INFORMATION

NFPA Ratings		NPCA-HMIS Ratings		Tier II	Tier II Composition
Health Hazard	:2	Health	:2	Fire	Pure
Fire Hazard	:2	Flammability	:2	Reactivity	Mix
Reactivity	:0	Reactivity	:0	Pressure	Solid
Special Hazard	:		:	Acute	Liquid
			:	Chronic	Gas
					Trade Secret:

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ADDITIONAL INFORMATION  
MANUFACTURER MSDS NUMBER = 017985  
CHEMICAL FAMILY  
SURFACTANT ESTERS

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REVISIONS

REVISION SUMMARY:  
SINCE SEPTEMBER 11, 1993 THIS MSDS HAS BEEN REVISED IN  
SECTION(S): 7

REFERENCES

NUMBER: HDHA-A-10014

SUPERCEDES DATE

SEPTEMBER 11, 1993

DISCLAIMER

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USERS RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.

OTHER TEXT

CHEMICAL NAME:  
NOT APPLICABLE: BLEND  
CONTACT ADDRESS:  
NALCO/EXXON ENERGY CHEMICALS, L.P.  
P.O. BOX 87, SUGAR LAND, TEXAS 77487-0087  
NON EMERGENCY TELEPHONE NUMBERS: (8AM - 5 PM M-F)  
FOR HEALTH AND SAFETY INFORMATION CALL:  
(713) 263-7000  
FOR GENERAL PRODUCT INFORMATION CALL :  
(713) 263-7000

KEY

- 4 = SEVERE
- 3 = SERIOUS
- 2 = MODERATE
- 1 = SLIGHT
- 0 = MINIMAL

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Section 18 ALYESKA PROCEDURES

DISCLAIMER                   ALYESKA PROCEDURES & INFORMATION  
                                  :ALYESKA NOTE TO FOLLOW

Notes

\*  
This section is provided solely by Alyeska Pipeline Service Co. and is not

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Notes

a part of the MSDS provided for this product; nor has it been reviewed or endorsed by the product manufacturer.

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DOT :ALYESKA NOTE TO FOLLOW

Notes

ETHYLENE GLYCOL MONOBUTYL ETHER SOLUTION, 6.1, UN2369, III

RCRA

:NON-HAZARDOUS WASTE - SEE HZ-70