

MET-L-CHEK COMPANY -- E-58D EMULSIFIER -- 6850-01-268-6716

===== Product Identification =====

Product ID:E-58D EMULSIFIER

MSDS Date:10/01/1999

FSC:6850

NIIN:01-268-6716

Status Code:A

MSDS Number: CKHHH

=== Responsible Party ===

Company Name:MET-L-CHEK COMPANY

Address:1639 EUCLID ST

Box:00000

City:SANTA MONICA

State:CA

ZIP:90404

Country:US

Info Phone Num:310-450-1111/FAX 452-4046

Emergency Phone N

um:310-450-1111

Preparer's Name:NOT PROVIDED

Chemtec Ind/Phone:(800)424-9300

CAGE:98733

=== Contractor Identification ===

Company Name:MET-L-CHEK COMPANY

Address:1639 EUCLID ST

Box:00000

City:SANTA MONICA

State:CA

ZIP:90404

Country:US

Phone:310-450-1111/FAX 310452-4046

Contract Num:SP0450-00-M-D974

CAGE:98733

===== Composition/Information on Ingredients =====

Ingred Name:ETHYLENE GLYCOL

CAS:107-21-1

RTECS #:KW2975000

Minumum % Wt:65.

Maxumum % Wt:80.

Other REC Limits:NOT PRO

VIDED  
OSHA PEL:NONE  
Code:F  
ACGIH TLV:100 MG/M3  
ACGIH STEL:C127 MG/M3;C50 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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===== Hazards Identification =====

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYE CONTACT:  
LIQUID MAY CAUSE IRRITATION, REDNESS, TEARING, STINGING AND  
SWELLING OF EYES. SKIN CONTACT: MAY CAUSE SKIN IRRITATION WITH  
PROLONGED OR REPEATED CONTACT. SYMPTOMS MAY INCLUDE REDNESS AND  
BURNING OF SKIN. SWALLOWING: SMALL AMOUNTS MAY NOT PRODUCE HARMFUL  
EFFECTS. LARGE AMOUNTS MAY BE HARMFUL. INHALATION: SMALL AMOUNTS  
MAY NOT BE HARMFUL. LARGE AMOUNTS MAY BE HARMFUL. TARGET ORGAN  
EFFECTS: OVER EXPOSURE TO COMPONENTS OF THIS MATERIAL CAN AFFECT  
KIDNEYS AND LIVER.  
Explanation of Carcinogenicity:THIS MATERIAL IS NOT KNOWN TO CONTAIN  
ANY CONSTITUENTS LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY  
FOR RESEARCH ON  
CANCER, THE NATIONAL TOXICOLOGY PROGRAM, OR OSHA.  
Effects of Overexposure:STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING,  
DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS  
SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, FATIGUE, HEADACHE,  
UNCONSCIOUSNESS).  
Medical Condition Aggravated by Exposure:NOT PROVIDED

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===== First Aid Measures =====

First Aid:EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES. HOLD  
EYELIDS OPEN. SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED  
CLOTHING. WASH EXPOSED AREA WITH SOAP & WATER. IF SYMPTOMS PERSIST,  
SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. CLEAN SHOES  
BEFORE REUSE. SWALLOWING: CALL A PHYSICIAN IMMEDIATELY. IF  
INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH;  
PLACE INDIVIDUAL ON THEIR LEFT SIDE WITH HEAD DOWN. DO NOT LEAVE  
THE INDIVIDUAL UNATTENDED. INHALATION: REMOVE TO FRESH AIR. IF NOT  
BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING, GIVE OXYGEN.

REATHING IS DIFFICULT,  
GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:=111.1C, 232.F

Autoignition Temp:=397.8C, 748.F

Lower Limits:3.2

Upper Limits:15.3

Extinguishing Media:DRY CHEMICAL, WATER FOG, FOAM OR CARBON DIOXIDE.

Fire Fighting Procedures:WATER MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPRO

VED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATE D IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:EMPTY CONTAINERS MAY CONTAIN VAPORS.

===== Accidental Release Measures =====

Spill Release Procedures:VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. ISOLATE AREA. WEAR PROTECTIVE GEAR, KEEP UNNECESSARY PERSONNEL AWAY. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. COLLECT LIQUID IN AN APPROPRIATE

CONTAINER OR ABSORB WITH AN INERT MATERIAL SUCH AS VERMICULITE, DRY SAND, OR EARTH; DO NOT USE COMBUSTIBLE MATERIALS, AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM AREAS WHERE THE FIRE HAZARD MAY EXIST. STORE AND USE IN NO SMOKING AREA.

EMPTY

CONTAINERS MAY CONTAIN RESIDUE LIQUID AND VAPORS.

Other Precautions:ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSING SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:PERSONAL RESPIRATORS (NIOSH APPROVED) IF EXPSOURE LIMIT IS EXCEEDED.

Ventilation:A SYSTEM OF LOCAL OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE

AIRBORNE EXPOSURE LIMITS.

Protective Gloves:WEAR RESISTANT GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES, SAFETY GLASSES OR FULL FACE SHEILD ARE ADVISED.

Other Protective Equipment:EYE WASH AND QUICK-DRENCH FACILITIES SHOULD BE NEAR WORK AREA. TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

LOCAL EXHAUST VENTILATION IS PREFERRED TO CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE.

===== Physical/Chemical Properties =====

HCC:V5

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Decomp Temp:Decomp Text:NOT PROVIDED

Spec Gravity:1.12 @ 60F

Viscosity:NOT PROVIDED

Solubility in Water:100%

Appearance and Odor:PINKISH RED LIQUID. MILD ODOR.

Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

AVOID STRONG ACIDS, ALKALIES, AND OXIDIZING AGENTS.

Stability Condition to Avoid:NOT PROVIDED

Hazardous Decomposition Products:MAY FORM CARBON DIOXIDE AND CARBON MONOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:NO DATA AVAILABLE ON PRODUCT.

===== Ecological Information =====

Ecological:NO DATA AVAILABLE ON PRODUCT.

===== Disposal Considerations =====

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te Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT  
MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL  
REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE  
OF CONTAINER AND UN USED CONTENTS IN ACCORDANCE WITH FEDERAL,  
STATE, AND LOCAL REQUIREMENTS.

===== MSDS Transport Information =====

Transport Information:DOT INFORMATION (49CFR 172.101): OTHER REGULATED  
SUBSTANCES, LIQUID, N.O.S., 9, NA3082,III. R  
EPORTABLE QUANTITY-  
49CFR 172.101: 5000 LBS. ETHYLENE GLYCOL.

===== Regulatory Information =====

SARA Title III Information:SECTION 311/312: IMMEDIATE AND DELAYED. SARA  
313 COMPONENTS-40CFR372.65: ETHYLENE GLYCOL, CAS# 107-21-1.