

MET-L-CHEK COMPANY -- E-58D EMULSIFIER -- 6850-01-264-0837

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

Product ID:E-58D EMULSIFIER

MSDS Date:01/01/2001

FSC:6850

NIIN:01-264-0837

Kit Part:Y

MSDS Number: CKTFP

=== Responsible Party ===

Company Name:MET-L-CHEK COMPANY

Address:1639 EUCLID ST

City:SANTA MONICA

State:CA

ZIP:90404-3770

Country:US

Info Phone Num:310-450-1111

Emergency Phone Num:310-450-1111

Chemt

rec 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-D492

CAGE:98733

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:SP0450-01-M-ZB52

CAGE:98733

Company Name:MET-L-CHEK COMPANY

Address:1639 EUCL

ID ST
Box:00000
City:SANTA MONICA
State:CA
ZIP:90404
Country:US
Phone:310-450-1111/FAX 310452-4046
Contract Num:SP0450-02-M-M049
CAGE:98733

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

Ingred Name:ETHYLENE GLYCOL (BULK, 55GAL.)
CAS:107-21-1
RTECS #:KW2975000
Minumum % Wt:65.
Maxumum % Wt:80.
ACGIH STEL:C127 MG/M3;C50 PPM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Reports of Carcinogenicity:NTP:NO IARC:NO O
SHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: KIDNEY, LIVER. EYE
CONTACT: LIQUID MAY CAUSE IRRITATION, REDNESS, TEARING,STINGING AND
SWELLING OF EYES. SKIN CONTACT: MAY CAUSE 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 HAR MFUL.

Explanation of Carcinogenicit

y:THIS MATERIAL IS NOT KNOWN TO CONTAIN

ANY CONSTITUENTS LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY
FOR RESEARCH FOR 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, FATIGUE, HEADACHE, UNCONSCIOUSNESS).

Medical Cond Aggravated by Exposure:OVER EXPOSURE TO COMPONENTS OF THIS
MATERIAL CAN EFFECT KIDNEYS AND

LIVER.

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

First Aid: EYES: FLUSH WITH CLEAN WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING AND CLEAN SHOES BEFORE REUSE. SWALLOWING: CALL 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 INDIVIDUAL UNATTENDED. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point Method: TCC
Flash Point: =111.1C, 232.F
Autoignition Temp: =397.7C, 747.9F
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-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED 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!

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

Handling and Storage Precautions: PROTECT AGAINST PHYSICAL DAMAGE. STORE

IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM AREAS WHERE FIRE HAZARD MAY EXIST. STORE AND USE IN NO SMOKING AREA. EMPTY CONTAINERS MAY CONTAIN RESIDUE LIQUID AND VAPOR.

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 EXPOSURE LIMIT IS EXCEEDED.

Ventilation: SYSTEM OF LOCAL OR GENERAL EXHAUST RECOMMENDED TO KEEP EXPOSURE BELOW AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST IS PREFERRED TO CONTROL EMISSION AT ITS SOURCE.

Protective Gloves: WEAR RESISTANT GLOVES.

Eye Protection: CHEMICAL SPLASH GOGGLES, SAFETY GLASSES OR FULL FACE SHIELD.

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

Supplemental Safety and Health

THIS ENTRY, MSDS SERIAL #CKTFP, DESCRIBES THE E-58 D EMULSIFIER, PART 2 OF A TWO PART KIT. SEE THIS SAME NSN FOR FLUORESCENT PENETRANT FP-95A(M), SERIAL # CKTFL, FOR PART ONE DATA.

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

HCC: V4

Spec Gravity: 1.12 @ 60F (9.3 LBS/GAL)

VOC Grams/Liter: 9.3

Solubility in Water: 100%

Appearance and Odor: PINKISH RED LIQUID; MILD ODOR.

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

Stability Indicator/Materials to Avoid: YES

AVOID STRONG ACIDS, ALKALIES, AND OXIDIZING AGENTS.

Stability Condition to Avoid: STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

Hazardous Decomposition Products: MAY FORM CARBON DIOXIDE AND CARBON MONOXIDE AS PRODUCTS OF COMBUSTION.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Toxicological Information: THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CONSTITUENTS LISTED

TED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, THE NATIONAL TOXICOLOGY PROGRAM, OR OSHA. OSHA EXPOSURE LIMITS (VPEL): 50 PPM. ACGIH THRESHOLD LIMIT (TLV): 100 MG/M3.

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

Ecological:NO DATA AVAILABLE ON PRODUCT.

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

Waste Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTION
S. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONT ENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

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

Transport Information:DOT INFORMATION- 49 CFR 172.101: PSN: OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.; CLASS 9; NA 3082 ; PG I I I .
REPORTABLE QUANTITY- 49 CFR 172.101: 5000 LBS. ETHYLENE GLYCOL.
(HMIS: THIS ITEM DOES NOT MEET THE DEFINITION OF A "HAZARDOUS SUBSTANCE" BASED ON 49 CFR 171.8, AND IN 55 GAL DRUMS (512 LBS), AND RQ FOR ETHYLENE GLYCOL= 5,000 LBS. THIS ITEM IS NOT REGULATED FOR TRANSPORTATION.)

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

SARA Title III Information:SARA 302 COMPONENTS- 40 CFR 355 APPENDIX A: NONE. SECTION 311/312 HAZARD CLASS-40 CFR370.2: IMMEDIATE, DELAYED.
SARA 313 COMPONENTS- 40 CFR 372.65: ETHYLENE GLYCOL, CAS # 107-21-1,