

=====  
MSDS Safety Information  
=====

FSC: 6850  
NIIN: 01-268-6717  
MSDS Date: 01/01/1997  
MSDS Num: BQSMR  
Product ID: E-58 D EMULSIFIER  
MFN: 03  
Responsible Party  
Cage: 98733  
Name: MET-L-CHEK COMPANY  
Address: 1639 EUCLID ST  
City: SANTA MONICA CA 90404  
Info Phone Number: 310-450-1111  
Emergency Phone Number: 310-450-1111/800-424-9300 (CHEMTREC)

=====  
Item Description Information  
=====

Item Manager: S9G  
Item Name: INSPECTION PENETRANT EMULSIFIER  
Specification Number: MIL-I-25135E  
Type/Grade/Class: TY I, LEVL 2, METHOD D  
Unit of Issue: CN  
Quantitative Expression: 00000000005GL  
UI Container Qty: 5.0 GAL  
Type of Container: CAN

=====  
Ingredients  
=====

Cas: 107-21-1  
RTECS #: KW2975000  
Name: ETHYLENE GLYCOL (SARA 313) (CERCLA)  
% Wt: <= 80  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: C 50 PPM, VAPOR; 9495  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

=====  
Health Hazards Data  
=====

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS UNKNOWN.  
Route Of Entry Inds - Inhalation: NO  
Skin: NO  
Ingestion: NO  
Carcinogenicity Inds - NTP: NO  
IARC: NO  
OSHA: NO  
Effects of Exposure: TARGET ORGANS: EYES, SKIN, KIDNEYS, RESPIRATORY AND GI TRACTS. ACUTE- EYES/SKIN: MILD IRRITATION. INHALE: CAN CAUSE CNS DEPRESSION. ORAL: MAY BE HARMFUL. VAPORS MAY DAMAGE KIDNEYS. INGESTION OF EXCESSIVE AMOUNTS MAY DAMAGE CENTRAL NERVOUS SYSTEM AND KIDNEYS. CHRONIC- UNKNOWN.  
Explanation Of Carcinogenicity: NONE  
Signs And Symptoms Of Overexposure: IRRITATION, HEADACHE, DIZZINESS, NARCOSIS, DRUNKENNESS

Medical Cond Aggravated By Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS, BLOOD, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid: CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS,DRINK 2 GLASSES OF WATER & IN DUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

=====  
Handling and Disposal  
=====

Spill Release Procedures: PREVENT SKIN AND EYE CONTACT. ABSORB SPILLS WITH INERT MATERIAL SUCH AS SAND OR VERMICULITE. TRANSFER TO SUITABLE CONTAINERS FOR DISPOSAL. CLEAN SPILL AREA WITH SOAP AND WATER.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION IS RECOMMENDED.

Handling And Storage Precautions: STORE AWAY FROM OXIDIZERS. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions: WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING ANDBEFORE EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF CHILDREN. AVOID EYE OR SKIN CONTACT. DO NOT INGEST.

=====  
Fire and Explosion Hazard Information  
=====

Flash Point Method: PMCC

Flash Point: =111.1C, 232.F

Lower Limits: 3.2

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

=====  
Control Measures  
=====

Respiratory Protection: APPROVED ORGANIC TYPE RESPIRATOR IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

Ventilation: LOCAL EXHAUST AND MECHANICAL: TO MAINTAIN TLV.

Protective Gloves: CHEMICAL RESISTANT

Eye Protection: SAFETY GLASSES

Other Protective Equipment: CHEMICAL RESISTANT APRON

Work Hygienic Practices: AVOID SKIN AND EYE CONTACT.WASH AFTER USING.

Supplemental Safety and Health: PERCENTAGE CHANGED. FOR PREVIOUS FORMULATIONS,SEE PNI A OR B, SAME NSN.

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

HCC: N1

NRC/State LIC No: NOT RELEVANT

Boiling Point: =193.3C, 380.F

Vapor Pres: ~1.2MM

Vapor Density: VERY LOW

Spec Gravity: ~1.2

Viscosity: UNKNOWN

Evaporation Rate & Reference: UNKNOWN

Solubility in Water: COMPLETE

Appearance and Odor: LIGHT REDDISH PINK LIQUID - PRACTICALLY ODORLESS

Corrosion Rate: UNKNOWN  
=====

Reactivity Data

=====  
Stability Indicator: YES  
Stability Condition To Avoid: WILL IGNITE IN AIR ABOUT 775F.  
Materials To Avoid: OXIDIZING MATERIAL  
Hazardous Decomposition Products: CARBON MONOXIDE  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: EXPOSURE TO OXIDANTS  
=====

Toxicological Information

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

MSDS Transport Information

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

Other Information

=====  
Transportation Information  
=====

Responsible Party Cage: 98733  
Trans ID NO: 120516  
Product ID: E-58 D EMULSIFIER  
MSDS Prepared Date: 01/01/1997  
Review Date: 01/23/1996  
MFN: 3  
Net Unit Weight: 50.0 LBS  
AF MMAC Code: NR  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: CN  
Container QTY: 5.0 GAL  
Type Of Container: CAN  
=====

Detail DOT Information

=====  
DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

Detail IMO Information

=====  
IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
=====

Detail IATA Information

=====  
IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

Detail AFI Information

=====

AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====

HAZCOM Label

=====

Product ID: E-58 D EMULSIFIER

Cage: 98733

Company Name: MET-L-CHEK COMPANY

Street: 1639 EUCLID ST

PO Box: 00000

City: SANTA MONICA CA

Zipcode: 90404

Health Emergency Phone: 310-450-1111/800-424-9300 (CHEMTREC)

Label Required IND: Y

Date Of Label Review: 01/23/1996

Status Code: C

MFG Label NO: UNKNOWN

Label Date: 01/23/1996

Year Procured: 1996

Origination Code: G

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS:EYES, SKIN, KIDNEYS, RESPIRATORY & GI TRACTS. ACUTE- EYES/SKIN:MILD IRRITATION. INHALE:CAN CAUSE CNS DEPRESSION. ORAL:MAY BE HARMFUL. CHRONIC- UNKNOWN. STORE AWAY FROM OXIDIZERS. ABSORB SPILLS WITH INERT MATERIAL SUCH AS SAND/ VERMICULITE. TRANSFER TO SUITABLE CONTAINERS FOR DISPOSAL. FIRST AID- CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK 2 GLASSES OF WATER & INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.