

Distributed By:  
The Easthill Group dba/ The Eastwood Co.  
263 Shoemaker Rd.  
Pottstown, PA 19464  
USA & Canada: 1-800-345-1178  
Outside USA: (610) 323-2200

EW #10087Z - EW Gas Tank Sealer One Pint

## TANK LINER

### MATERIAL SAFETY DATA SHEET

#### Product Identification

PRODUCT NAME: METHYL ETHYL KETONE, TANK SEALANT  
COMMON NAMES: METHYL ETHYL KETONE; MEK; 2-BUTANONE  
FORMULA:  $\text{CH}_3\text{COC}_2\text{H}_5$

CAS REGISTRATION NO. : 78-93-3

DATE ISSUED: 11/96

SUPERSEDES: 03/96

#### HAZARD RATING (NFPA 325M)

HEALTH: 1  
FIRE: 3  
REACTIVITY: 0  
SPECIAL: NONE

#### HAZARD RATING SCALE:

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

#### Hazardous Ingredients

##### EXPOSURE LIMITS:

METHYL ETHYL KETONE >99%

##### EXPOSURE LIMITS,PPM

PEL= 200 (OSHA)  
TLV= 200 (ACGIH)  
LIMIT= 300 (OTHER)

HAZARD: FLAMMABLE, IRRITANT

#### Physical Properties

BOILING POINT (760 MM HG)

79.6 DEG C (175.3 DEG F)

% VOLATILE BY VOLUME

(BY WT.) 100

VAPOR PRESSURE (20 DEG C)

74.9 MMHG

VAPOR DENSITY (AIR=1)

2.5

SOLUBILITY IN WATER

(BY WT.) 24% AT 20C

APPEARANCE & COLOR

WHITE TO TRANSLUCENT

SPECIFIC GRAVITY

(H2O=1) 0.8060 AT 20/20C

EVAPORATION RATE (BU.AC.=1)

6.6

FREEZING POINT

-86.6 DEG C (-123.9 DEG F)

ODOR

NONE-RESIDUAL

PHYSICAL STATE

LIQUID

#### Fire And Explosion Hazard

FLASH POINT:

21 DEG F (-6 DEG C) TAG CLOSED CUP (ASTM D56)

22 DEG F (-5 DEG C) TAG OPEN CUP (ASTM D1310)

FLAMMABLE LIMITS AIR, % BY VOLUME: UPPER: 1.4 (@ 200 DEG F)

LOWER: 11.4 (@ 200 DEG F)

EXTINGUISHING MEDIA:

APPLY ALCOHOL-TYPE OR ALL PURPOSE-TYPE FOAMS BY MANUFACTURER'S RECOMMENDED TECHNIQUES FOR LARGE FIRES. USE  $\text{CO}_2$  OR DRY CHEMICAL MEDIA FOR SMALL FIRES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE AND EXPOSED CONTAINERS AND STRUCTURES. USE WATER SPRAY TO DISPERSE VAPORS; RE-IGNITION IS POSSIBLE. USE SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARD:

VAPORS FORM FROM THIS PRODUCT AND MAY TRAVEL OR BE MOVED BY AIR CURRENTS AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, ELECTRICAL EQUIPMENT, STATIC DISCHARGES OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM PRODUCT HANDLING POINT. VAPORS MAY SETTLE IN LOW OR CONFINED AREAS, OR TRAVEL A LONG DISTANCE TO AN IGNITION SOURCE AND FLASH BACK EXPLOSIVELY  
THIS PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD.

#### Reactivity Data

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS; ALKALIS; HALOGENS; MINERAL ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING CAN PRODUCE THE FOLLOWING COMBUSTION PRODUCTS:

CARBON MONOXIDE AND/OR CARBON DIOXIDE - CARBON MONOXIDE IS HIGHLY TOXIC IF INHALED; CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXANT (6HC90009\*\*\*\*DOES NOT EXIST\*\*\*\*)

#### Spill, Leak And Disposal Procedures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNTS OF WATER; LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. EXTINGUISH AND DO NOT TURN ON ANY IGNITION SOURCE UNTIL THE AREA IS DETERMINED TO BE FREE FROM FIRE OR EXPLOSION HAZARD.

**WASTE DISPOSAL METHOD:**

INCINERATE IN A FURNACE WHERE PERMITTED UNDER FEDERAL, STATE AND LOCAL REGULATIONS; AT VERY LOW CONCENTRATIONS IN WATER, THIS PRODUCT IS BIODEGRADABLE IN A BIOLOGICAL WASTE WATER TREATMENT PLANT.

**Health Hazard Data****TOXICITY DATA**

|                                     |   |
|-------------------------------------|---|
| ACUTE ORAL TOXICITY LD50 (RAT)      | =2737 MG/KG                                 |
| ACUTE DERMAL TOXICITY LD50 (RABBIT) | =13 G/KG                                    |
| INHALATION LCLO (RAT)               | =2000 PPM/4HR                               |
| TCLO (HUMAN)                        | =1000 PPM/5 MIN (SYSTEMIC IRRITANT EFFECTS) |

CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. OTHER DATA: LABORATORY RATS EXPOSED BY INHALATION TO OVER 1000 PPM FOR MOST OF THEIR PREGNANCY PERIOD EXHIBITED MINOR EMBRYO TOXIC/FETOTOXIC EFFECTS. THIS CONCENTRATION OF MEK IS OVER 5 TIMES THE OSHA PEL, MEK MAY POTENTIATE THE TOXIC EFFECTS OF N-HEXANE, METHYL BUTYL KETONE, AND CARBON TETRACHLORIDE.

**PRIMARY ROUTES OF EXPOSURE:**

INHALATION: HIGH CONCENTRATIONS OF VAPOR MAY CAUSE NAUSEA, VOMITING, HEADACHE, AND DIZZINESS. CAUSES IRRITATION OF THE RESPIRATORY TRACT, EXPERIENCED AS NASAL DISCOMFORT AND DISCHARGE WITH CHEST PAIN AND COUGHING. LOSS OF CONSCIOUSNESS MAY OCCUR.

SKIN: BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION WITH ITCHING AND LOCAL SKIN REDNESS. PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING AND DRYING OF THE SKIN.

EYE CONTACT: CAUSES MODERATE TO SEVERE IRRITATION, EXPERIENCED AS DISCOMFORT OR PAIN, EXCESS BLINKING AND TEAR PRODUCTION, WITH MARKED EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVA.

INGESTION: MODERATELY TOXIC. MAY CAUSE IRRITATION OF THE MOUTH, THROAT AND ESOPHAGUS WITH NAUSEA, ABDOMINAL DISCOMFORT, VOMITING DIARRHEA, DIZZINESS AND DROWSINESS. ASPIRATION INTO THE LUNGS MAY OCCUR DURING INGESTION OR VOMITING. RESULTING IN LUNG INJURY.

EFFECTS OF OVEREXPOSURE: NO ADVERSE EFFECTS ANTICIPATED FROM AVAILABLE INFORMATION.

OTHER HEALTH HAZARDS: METHYL ETHYL KETONE IS TOXIC IF ASPIRATED. IT IS KNOWN TO ENHANCE THE NEUROTOXICITY OF LINEAR 6 CARBON SOLVENTS. LOW CONCENTRATIONS OF METHYL VINYL KETONE MAY BE FORMED DURING COMBUSTION OF METHYL ETHYL KETONE. CONCENTRATIONS OF METHYL VINYL KETONE AS LOW AS 0.25 PPM MAY BE IRRITATING TO THE EYES, NOSE AND RESPIRATORY TRACT. OVEREXPOSURE TO IRRITATING CONCENTRATIONS OF VAPOR MAY RESULT IN LUNG INJURY.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.

INHALATION OF MATERIAL MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

ADDITIONAL TOXICITY INFORMATION: IN TEST WITH LABORATORY ANIMALS, METHYL ETHYL KETONE DID NOT CAUSE ANY TERATOGENIC EFFECTS AT EXPOSURE CONCENTRATIONS WHICH DEMONSTRATED EVIDENCE OF MATERNAL TOXICITY, AND AT THE SAME TIME PRODUCED EVIDENCE OF FETOTOXICITY BUT ONLY IN THE PRESENCE OF MATERIAL TOXICITY. RESULTS OBTAINED IN THE FIRST STUDY WERE NOT REPEATABLE IN A SECOND STUDY CARRIED OUT UNDER VIRTUALLY IDENTICAL EXPERIMENTAL CONDITIONS. THUS LACKING A REPEATABLE RESPONSE. IT MUST BE CONCLUDED THAT METHYL ETHYL KETONE DOES NOT DEMONSTRATE APPRECIABLE DEVELOPMENTAL TOXIC ACTIVITY IN RATS.

OSHA STANDARD 29CFR 1910.1200 REQUIRES THAT INFORMATION BE PROVIDED TO EMPLOYEES REGARDING THE HAZARDS OF CHEMICALS BY MEANS OF A HAZARD COMMUNICATION PROGRAM INCLUDING LABELING, MATERIAL SAFETY DATA SHEETS, TRAINING AND ACCESS TO RECORDS. WE REQUEST THAT YOU, AND IT IS YOUR LEGAL DUTY TO, MAKE ALL INFORMATION IN THIS MATERIAL SAFETY DATA SHEET AVAILABLE TO YOUR EMPLOYEES.

FOR ADDITIONAL NON-EMERGENCY HEALTH, SAFETY, OR ENVIRONMENTAL INFORMATION CONTACT:

THE EAST HILL GROUP DBA/ THE EASTWOOD CO.

263 SHOEMAKER RD.

POTTSTOWN, PA 19464

USA & CANADA: 1-800-345-1178

OUTSIDE USA: (610) 323-2200

FOR EMERGENCIES CALL: CHEM-TREC 1-800-424-9300

**First Aid Procedures & Physicians Notes****EYE:**

IMMEDIATELY FLUSH EYES WITH WATER AND CONTINUE WASHING FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION WITHOUT DELAY, PREFERABLY FROM AN OPHTHAMOLOGIST.

**SKIN:**

REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE.

**INHALATION:**

REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. IF BREATHING IS DIFFICULT, OXYGEN MAY BE GIVEN BY QUALIFIED PERSONNEL. OBTAIN MEDICAL ATTENTION.

**INGESTION:**

DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO DRINK. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

**Special Handling Information**

SPECIAL PROTECTION:

**VENTILATION REQUIREMENTS:**

GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY WHERE THIS PRODUCT IS STORED AND HANDLED IN CLOSED EQUIPMENT. SPECIAL LOCAL VENTILATION IS NEEDED AT POINTS WHERE VAPORS CAN BE EXPECTED TO ESCAPE THE WORKPLACE AIR.

**SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:****RESPIRATORY:**

USE SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATIONS.

**EYE:**

MONOGOGGLES.

**GLOVES:**

BUTYL.

**OTHER CLOTHING AND EQUIPMENT:**

WEAR CHEMICAL APRON. EYE WASH AND EMERGENCY SAFETY SHOWER SHOULD BE IN CLOSE PROXIMITY.

**Special Precautions And Additional Information****HANDLING AND STORAGE PRECAUTIONS:****WARNING - FLAMMABLE**

HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. ASPIRATION MAY CAUSE LUNG DAMAGE. MAY CAUSE DIZZINESS AND DROWSINESS.

KEEP AWAY FROM HEAT, SPARKS AND FLAME. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT SWALLOW. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY

**AFTER HANDLING:**

OTHER PRECAUTIONS: SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTO IGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESS WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS.

TRANSFER HAZARD: VAPORS OF THIS PRODUCT MAY BE IGNITED BY STATIC SPARKS. USE PROPER BONDING AND GROUNDING DURING LIQUID TRANSFER AS DESCRIBED IN NATIONAL FIRE PROTECTION ASSOCIATION DOCUMENT NFPA 77.

**Footnotes****SIGNAL WORD:**

DANGER

**STATEMENTS OF HAZARDS:**

FLAMMABLE

**PRECAUTIONARY STATEMENTS:**

KEEP CONTAINER CLOSED EXCEPT AS NECESSARY WHEN TRANSFERRING MATERIAL.

INSURE ADEQUATE VENTILATION OR USE APPROVED RESPIRATOR.

DO NOT BREATHE VAPOR.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

USE OF GOGGLES, BUTYL GLOVES, IS RECOMMENDED.

**Other Regulatory Information**

DO NOT DETACH THIS SECTION FROM THE MSDS AND BE SURE TO INCLUDE THIS SECTION WHEN COPYING THE MSDS. SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT OF 1986 (SARA) TITLE III REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT APPEAR IN 40 CFR 372 (FOR SARA 313). THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL. COMPONENTS THAT ARE AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER STATUTE ARE:

| CHEMICAL            | CAS NO. | UPPER BOUND CONCENTRATION % |
|---------------------|---------|-----------------------------|
| METHYL ETHYL KETONE | 78-93-3 | 100                         |

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY

**Notice**

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**Revision**

03/96: REVISED FORMAT, CONTACT INFORMATION, ADDED SARA INFO

09/87: ADDED OTHER PERSONNEL EXPOSURE LIMITS

\*\*\*\*\*END OF MSDS\*\*\*\*\*