MANUFACTURED FOR: The Easthill Group dba/ The Eastwood Company 263 Shoemaker Road Pottstown, PA 19464 USA & Canada: 800-345-1178 Outside USA: (610) 323-2200 Emergency Contact: Chem-Trec 800-424-9300

9300 TANK LINER MATERIAL SAFETY DATA SHEET

Product Identification	
PRODUCT NAME: METHYL ETHYL KETONE, TANK SEALANT COMMON NAMES: METHYL ETHYL KETONE; MEK; 2-BUTANONE	CAS REGISTRATION NO.: 78-93-3
FORMULA: CH3COC2H5	DATE ISSUED: 11/96
	SUPERSEDES: 03/96
HAZARD RATING (NFPA 325M)	HAZARD RATING SCALE:
HEALTH: 1	0=MINIMAL 3=SERIOUS
FIRE: 3 REACTIVITY: 0	1=SLIGHT 4=SEVERE
SPECIAL: NONE	2=MODERATE
Hazardous Ingredients	
EXPOSURE LIMITS: EXPOSURE LIMITS, PPM	
METHYL ETHYL KETONE >99% PEL= 200 (OSHA) TLV= 200 (ACGIH)	HAZARD: FLAMMABLE, IRRITANT
LIMIT= 300 (OTHER)	
Physical Properties	
BOILING POINT (760 MM HG) % VOLATILE BY VOLUME (BY WT.) 100	79.6 DEG C (175.3 DEG F)
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 (H20=1) 0.8060 AT 20/20C	
EVAPORATION RATE (BU.AC.=1) 6.6 FREEZING POINT -86.6 DEG C (-123.9 DEG F)	
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 (
22 DEG F (-5 DEG C) TAG OPEN CUF	
22 DEG F (-5 DEG C) TAG OPEN CUF FLAMMABLE LIMITS AIR, % BY VOLUME: UPPER: 1.4 (@ 200 DEG F)	
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WASTE DISPOSAL METHOD:

EW #10565ZP - EW Gas Tank Sealer Quart

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/KĢ =2000 PPM/4HR INHALATION LCLO (RAT) =1000 PPM/5 MIN (SYSTEMIC IRRITANT EFFECTS) TCLO (HUMAN) 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. CORDS, WE REQUEST THAT YOU, AND IT IS YOUR LEGAL DUTY TO, MAKE ALL INFORMATION IN

TRAINING AND ACCESS	TO RECORDS. WE REQUEST	THAT TOU, AND IT IS TO
THIS MATERIAL SAFETY	DATA SHEET AVAILABLE TO	YOUR EMPLOYEES.

FOR ADDITIONAL NON-EMERGENCY	HEALTH, SAFETY, OR ENVIRONMENTAL INFORMATION CONTACT
OCCIDENTAL CHEMICAL CORP	(716) 286-3081, OR WRITE:
	OCCIDENTAL CHEMICAL CORP.
	PRODUCT STEWARDSHIP DPT
	SUITE 400
	360 RAINBOW BLVD. SOUTH
	NIAGARA FALLS, NY. 14032
FOR EMERGENCIES CALL:	(716) 278-7021 (24 HOURS) - OCCIDENTAL CHEMICAL CORP.
	(800) 424-9300 - CHEMTREC, TRANSPORTATION
	(303) 595-9048 - MEDICAL, ROCKY MTN.

First Ald 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 OPTHAMOLOGIST.

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 SILVEN BY QUALIFIED PERSONNEL. OBTAIN MEDICAL ATTENTION.

INGESTION:

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

Special Handling Information

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 NEED 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 HANDLING. AFTER 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 31 3). 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: CAS NO. **UPPER BOUND CONCENTRATINO %** CHEMICAL 78-93-3 100 METHYL ETHYL KETONE TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY Notice -----**KREEM PRODUCTS** EXPRESSLY DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN.** ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, KREEM PRODUCTS MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND KREEM PRODUCTS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR HANDLING PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

Revision	
03/96:	REVISED FORMAT, CONTACT INFORMATION, ADDED SARA INFO
09/87 [.]	ADDED OTHER PERSONNEL EXPOSURE LIMITS
