

METHYL ETHYL KETONE
MATERIAL SAFETY DATA SHEET

PREPARATION DATE 9/10

CHEMTEL - 800-255-3924
**EMERGENCY
PHONE
NUMBER**
**PRECAUTIONARY
LABELING**

RATING SCALE	HMIS	NFPA (IF APPLICABLE)
0 = NONE	HEALTH	HEALTH
1 = SLIGHT	FLAMMABILITY	FLAMMABILITY
2 = MODERATE	REACTIVITY	REACTIVITY
3 = SEVERE	PERSONAL PROTECTION	
4 = EXTREME		

2
3
0
X

1
3
0

**SECTION I
PRODUCT
IDENTIFICATION
OTHER NAMES**

 METHYL ETHYL KETONE
 PC3299M ; PC3300M ; PC3300MG ; X00321; A01194
 2-BUTANONE ; MEK ; ETHYL METHYL KETONE ; METHYL ACETONE

**SECTION II
COMPONENTS**

CHEMICAL IDENTITY	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS	%
METHYL ETHYL KETONE	78-93-3	200ppm	200ppm	STEL 300ppm	100%

**SECTION III
PHYSICAL
PROPERTIES**

BOILING POINT	80° C.	SPECIFIC GRAVITY	0.81
VAPOR PRESSURE (mm Hg)	78 @ 20° C.	VAPOR DENSITY (AIR=1)	2.5
MELTING POINT	-78° C.	EVAPORATION RATE (BUTYL ACETATE = 1)	5.7
SOLUBILITY IN WATER	APPRECIABLE (GREATER THAN 10%)		
APPEARANCE AND ODOR	CLEAR, COLORLESS LIQUID WITH KETONE-LIKE ODOR.		

**SECTION IV
FIRE
EXPLOSION**

FLASH POINT	20° F.	FLAMMABLE LIMITS	UPPER	11.4%
METHOD USED	TCC		LOWER	1.8%
EXTINGUISHING MEDIA	ALCOHOL FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.			
SPECIAL FIREFIGHTING PROCEDURES	FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	VAPORS MAY FLOW ALONG SURFACES TO DISTANT POINTS OF IGNITION AND FLASH BACK. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE.			

**SECTION V
REACTIVITY
DATA**

STABILITY	STABLE	XXX
	UNSTABLE	
CONDITIONS TO AVOID	HEAT, FLAME, OTHER SOURCES OF IGNITION.	
INCOMPATIBILITY	STRONG OXIDIZING AGENTS, STRONG BASES, CAUSTICS, MINERAL ACIDS, AMINES AND AMMONIA, PLASTICS	
HAZARDOUS DECOMPOSITION PRODUCTS	CARBON MONOXIDE, CARBON DIOXIDE	
HAZARDOUS POLYMERIZATION	WILL OCCUR	
	WILL NOT OCCUR	XX

SECTION VI

HEALTH HAZARD DATA

RTECS NUMBER		EL6475000					
PRIMARY ROUTES OF ENTRY							
INHALATION	YES	INGESTION	YES	SKIN ABSORPTION	YES	EYE CONTACT	YES
CARCINOGENICITY							
NTP	NO	IARC	NO	Z LIST	NO	OSHA	NO
REPRODUCTIVE EFFECTS	TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY BE TERATOGENIC						
TARGET ORGANS	NASAL SEPTUM, LUNGS, EYES, SKIN, MUCOUS MEMBRANES: IN ANIMALS; LIVER, KIDNEY, LUNGS, SPLEEN, BRAIN.						
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE							
RESPIRATORY SYSTEM DISEASE, SKIN DISORDERS							

EFFECTS OF OVEREXPOSURE

INHALATION :	HEADACHE, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, IRRITATION OF THE UPPER RESPIRATORY TRACT, UNCONSCIOUSNESS.
INGESTION :	HEADACHE, NAUSEA, VOMITING, DIZZINESS, GI IRRITATION, CNS DEPRESSION
SKIN CONTACT :	MAY CAUSE IRRITATION. PROLONGED MAY CAUSE DERMATITIS
EYE CONTACT :	CAUSES IRRITATION AND MAY CAUSE TEMPORARY CORNEAL DAMAGE

EMERGENCY AND FIRST AID

INHALATION :	REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. SEEK IMMEDIATE MEDICAL ATTENTION.
INGESTION :	DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER, MILK, OR MILK OF MAGNESIA. SEEK IMMEDIATE MEDICAL ATTENTION.
EYE CONTACT:	FLUSH EYES WITH FRESH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
SKIN ABSORPTION :	FLUSH SKIN WITH FRESH WATER FOR AT LEAST 15 MINUTES.
CHRONIC EFFECTS :	CNS DEPRESSION

SECTION VII INDUSTRIAL PROTECTIVE EQUIPMENT

VENTILATION :	USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQ.
RESPIRATORY PROTECTION :	NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. ABOVE TLV WEAR SELF-CONTAINED BREATHING APPARATUS.
EYE / SKIN PROTECTION :	SAFETY GOGGLES AND FACE SHIELD, UNIFORM OR PROTECTIVE WORK CLOTHING, CHEMICALLY RESISTANT RUBBER GLOVES.

SECTION VIII SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILLS	IMMEDIATELY SHUT OFF ALL SOURCES OF IGNITION. ABSORB SPILL ON VERMICULITE OR DIATOMACEOUS EARTH. PICK UP WITH A CLEAN SCOOP AND PLACE IN A PLASTIC BAG FOR LATER DISPOSAL. FLUSH SPILL AREA WITH FRESH WATER
WASTE DISPOSAL METHOD	DISPOSE IN ACCORDANCE WITH ALL EXISTING FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION IX SHIPPING

PROPER SHIPPING NAME	ETHYL METHYL KETONE
HAZARD CLASS	3
PACKING GROUP	II
UN / NA NUMBER	UN 1193
LABELS	FLAMMABLE LIQUID