

UNION CARBIDE CORP CHEMICALS AND PLASTICS DIV -- METHYL ETHYL KETONE --
6810-00-281-2785

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

Product ID:METHYL ETHYL KETONE

MSDS Date:10/02/1990

FSC:6810

NIIN:00-281-2785

MSDS Number: BMGPL

==== Responsible Party ====

Company Name:UNION CARBIDE CORP CHEMICALS AND PLASTICS DIV

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:

203-794-5226

Emergency Phone Num:800-822-4357

CAGE:36346

==== Contractor Identification ====

Company Name:TULSTAR PRODUCTS INC

Address:1722 S CARSON, SUITE 2907

Box:City:TULSA

State:OK

ZIP:74119

Country:US

Phone:918-587-7878/FAX -3297 (DAVID COOK)

CAGE:0F2M5

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357; 304-744-3487

CAGE:36346

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

Ingr

ed Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)

CAS:78-93-3

RTECS #:EL6475000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:200 PPM/300 STEL

ACGIH TLV:200 PPM/300STEL 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CAUSES SEVERE IRRITATION. SKIN:
BRI

EF CONTACT CAUSES REDNESS. PROLONGED CONTACT WITH EITHER THE
LIQUID OR VAPOR CAN CAUSE DRYING AND CRACKING OF THE SKIN.

INHALATION: VAPOR IS IRRITATING TO THE NOSE AND RESPIRATORY TRACT.

INGESTION: MODERATELY TOXIC. MAY CAUSE IRRITATION OF THE MOUTH,
THROAT, AND ESOPHAGUS.

Effects of Overexposure:EYES: REDNESS AND SWELLING OF THE CONJUNCTIVA.

SKIN: REDNESS AND CRACKING OF THE SKIN. INHALATION: SEVERE
IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, AND POSSIBLY
UNC

ONSCIOUSNESS. INGESTION: MO UTH, THROAT AND ESOPHAGUS

IRRITATION, NAUSEA, ABDOMINAL DISCOMFORT, VOMITING, DIARRHEA,
DIZZINESS, AND DROWSINESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING DISEASE
INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE IT INCREASED
RISK FROM EXPOSURE.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL
ATTENTION, PREFERABLY FROM AN OPHTHALMOLOGIST.

SKIN: REMOVE

CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. INHALATION:
REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GIVE OXYGEN IF
BREATHING DIFFICULT. GET MEDICAL ATTENTION. INGESTION: DO NOT
INDUCE VOMITING. DO NOT GIVE ANYTHING TO DRINK. GET MEDICAL
ATTENTION.

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

Flash Point Method:TCC

Flash Point:21.0F,-6.1C

Lower Limits:1.4

Upper Limits:11.4

Extinguishing Media:USE CARBON DIOXIDE OR DRY CHEM

ICAL MEDIA FOR SMALL

FIRES. APPLY ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAMS FOR LARGE FIRES.

Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND STRUCTURES. USE WATER SPRAY TO DISPERSE VAPORS; REIGNITION IS POSSIBLE.

Unusual Fire/Explosion Hazard:VAPORS MAY SETTLE IN LOW OR CONFINED AREAS OR TRAVEL A LONG DISTANCE TO AN IGNITION SOURCE AND FLASH BACK EXPLOSIVELY.LIQUID MAY PRODUCE A FLOATING FIRE HAZARD.

===== Accidental Release Measures =====

Spill Release Procedures:EXTINGUISH ALL SOURCES OF IGNITION UNTIL AREA IS DETERMINED TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. COLLECT LARGE SPILLS FOR DISPOSAL. FLUSH SMALL SPILLS WITH WATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED. USE WITH ADEQUATE VENTILATION. AVOID BREATHING VAPORS. DO NOT INGEST.

Other Precautions:SUDDEN RELEASE OF HOT ORGANIC 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.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATIONS.

Ventilation:LOCAL EXHAUST VENTILATION REQUIRED WHERE VAPOR LEAKS ARE EXPECTED. PRODUCT SHOULD BE CONFINED IN EQUIPMENT.

Protective Gloves:WEAR BUTYL RUBBER GLOVES.

Eye Protection:WEAR MONOGOGGLES.

Other Protective Equipment:WEAR CHEMICAL APRON. HAVE EYE WASH STATION AND SAFETY SHOWER AVAILABLE.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSING.

Supplemental Safety and Health

VAPORS OF THIS PRODUCT MAY BE IGNITED BY STATIC SPARKS. USE PROPER
B

ENDING AND GROUNDING DURING LIQUID TRANSFER AS DESCRIBED IN NATIONAL FIRE PROTECTION ASSOCIATION DOCUMENT NFPA 77. ASPIRATION OF THIS PRODUCT INTO THE LUNGS MAY OCCUR DURING INGESTION OR VOMITING WHICH MAY RESULT IN LUNG INJURY.

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

HCC:F2

Boiling Pt:B.P. Text:175F,79C

Melt/Freeze Pt:M.P/F.P Text:-124F,-87C

Vapor Pres:74.9

Vapor Density:2.6

Spec Gravity:0.8060

Evaporation Rate & Reference:6.3 (BUTYL ACETATE=1)

So

ubility in Water:24% @ 20C

Appearance and Odor:CLEAR LIQUID. NONRESIDUAL ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID STRONG OXIDIZING AGENTS, ALKALINE MATERIALS, MINERAL ACIDS, AND HALOGENS.

Stability Condition to Avoid:HEAT, FIRE, AND IGNITION SOURCES.

Hazardous Decomposition Products:BURNING CAN PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE. BURNING IN EXCESS OF 180C MAY PRODU

CE TOXIC

METHYL VINYL KETONE.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IF PERMITTED, INCINERATE. AT LOW CONCENTRATIONS IN WATER, PRODUCT IS READILY BIODEGRADABLE IN A BIOLOGICAL WASTEWATER TREATMENT PLANT.

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