

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- METHYL ETHYL KETONE,31210 --
6810-00-281-2763

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

Product ID:METHYL ETHYL KETONE,31210

MSDS Date:06/15/1993

FSC:6810

NIIN:00-281-2763

MSDS Number: BDSVV

=== Responsible Party ===

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info

Phone Num:713-241-4819

Emergency Phone Num:713-473-9461/800-424-9300(CHEMTREC)

Preparer's Name:J.C. WILLETT

CAGE:86961

=== Contractor Identification ===

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

CAGE:0A9L8

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

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===== Composition/Information on Ingr

edients =====

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313) (CERCLA)
CAS:78-93-3
RTECS #:EL6475000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM
ACGIH TLV:200 PPM/300STEL;9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:VOLATILE ORGANIC CONTENT AS LISTED ON MSDS: 6.67 LBS/GAL.
RTECS #:9999999VC
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT RELEVANT
ACGIH TLV:NOT RELEVANT

===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 3,400 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LUNG, GI
TRACT. ACUTE- EYE/SKIN:CAN CAUSE IRRITATION. MAY CAUSE SKIN
DRYNESS. INHALE:MAY CAUSE CNS DEPRESSION, RESPIRATORY TRACT
IRRITATION. ORAL:LIQUID IS MODERATELY TOX IC & MAY BE HARMFUL IF
SWALLOWED. MAY CAUSE CNS DEPRESSION. CHRONIC- DERMATITIS, C
NS &
NEUROTOXIC EFFECTS.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, TEARING, BLURRED VISION, SKIN
DEFATING, ITCHING, BLISTRING, DERMATITIS, HEADACHE, DIZZINESS,
WEAKNESS, FATIGUE, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL SPASMS,
PAIN, UNCONSCIOUSNESS, DEATH
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING DISEASES
INVOLVING THE EYES, SKIN, LUNGS OR CNS MAY BE AT INCREASED RISK
FROM EXPOSURE.

===== First Aid Measur

es =====

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

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

Flash Point Method:TCC

Flash Point:23.0F,-5.0C

Lower Limits:1.8%

Upper Limits:11.5%

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE (CO2), ALCOHOL FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSID

ERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.

CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT MATERIAL SUCH AS SAND. PLACE IN CONTAINER FOR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION & INCOMPATIBLE MATERIALS. BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID.

Other Precautions:"EMPTY" CONTAINERS MAY RETAIN RESIDUE AND CAN BE DANGEROUS. FOLLOW ALL LABEL INSTRUCTIONS. KEEP OUT OF REACH OF CHILDREN. AVOID EYE AND SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. DO NOT BREATHE VAPOR

RS. DO NOT INGEST.

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

Respiratory Protection:IF ENGINEERING CONTROLS ARE INADEQUATE TO CONTROL VAPOR CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR SHOULD BE WORN.
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:BUTYL OR PVA
Eye Protection:SAFETY GLASSES - CHEMICAL SPLASH GOGGLES
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.
Supplemental Safety and Health
NOTE TO PHYSICIAN: IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15 ML (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSION OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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

HCC:F3
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:175F,79C
Melt/Freeze Pt:M.P/F.P Text:-124F,-87C
Decomp Temp:Decomp Text:NOT KNOWN
Vapor Pres:70.9 @ 68F
Vapor Density:2.5
Spec Gravity:0.81
Evaporation Rate & Reference:3.8 (N-BUTYL ACETATE=1)
Solubility in Water:APPRECIABLE
Appearance and Odor:COLORLESS, MOBILE LIQ
UID - PUNGENT ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS
Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, METHYL VINYL KETONE, UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED.

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

Waste Disposal Methods:DISPOSAL S

HOULD BE MADE IN ACCORDANCE WITH ALL

APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

RECOMMENDED PROCEDURE IS BY INCINERATION. REPORTABLE QUANTITY (RQ):
5,000 LBS.

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