

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

Product ID:METHYL ISOBUTYL KETONE

MSDS Date:01/31/1990

FSC:6810

NIIN:00-052-1371

MSDS Number: BYDHT

=== Responsible Party ===

Company Name:VAN WATERS & ROGERS INC. SUB. OF UNIVAR

Address:1600 NORTON BLDG.

City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Info Phone Num:408-435-8700

Emergency Phone Num:408-435-8700/800-424-9300(CHEMTREC)

CAGE:6

E838

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

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Country:US

Phone:408-435-8700/800-424-9300(CHEMTREC)

CAGE:6E838

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

Ingred Name:METHYL ISOBUTYL KETONE (HEXONE) (S

ARA 313) (CERCLA)
CAS:108-10-1
RTECS #:SA9275000
Fraction by Wt: >99%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:50 PPM/75 STEL; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 2080 MG/KG (RTECS).
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, LIVER,

KIDNEY. ACUTE- MAY CAUSE EYE & RESPIRATORY TRACT IRRITATION, SKIN DRYNESS, NAUSEA, VOMITING. INHALATION OF VERY HIGH CONCENTRATIONS MAY CAUSE CNS EFFECTS, KIDNEY & LIVER DAMAGE. MODERATELY TOXIC BY INGESTION. PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DERMATITIS. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, TEARING, SKIN DEFATING, DERMATITIS, NAUSEA, HEADACHE, DIZZINESS, VOMITING, UNCONSCIOUSNESS, COMA
Medical Cond Aggravated
by Exposure:PERSONS WITH PRE-EXISTING DISEASES INVOLVING THE EYES, SKIN OR LUNGS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. KEEP AT REST. CALL PHYSICIAN.

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

Flash Point Method:TCC
Flash Point:61.0F,16.1C
Lower Limits:1.2
Upper Limits:8.0
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AI

R AND CAN TRAVEL

CONSIDERABLE 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 IGNITION SOURCES AND INCOMPATIBLE MATERIALS.

Other Precautions:"EMPTY" CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS. THEY MAY EXPLODE AND CAUSE INJURY/DEATH. KEEP OUT OF REACH OF CHILDREN.

===== 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:RUBBER 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:F2
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:241F,116C
Melt/Freeze Pt:M.P/F.P Text:-119F,-84C
Decomp Temp:Decomp Text:NOT KNOWN
Vapor Pres:15 @ 68F
Vapor Density:3.5
Spec Gravity:0.8015
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:1.6 (N-BUTYL ACETATE=1)
Solubility in Water:MODERATE
Appearance and Odor:CLEAR COLORLES
S LIQUID WITH SHARP 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, OPEN FLAMES,
STATIC ELECTRICITY
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
UNIDENTIFIED ORGANIC COMPOUNDS IN BLACK SMOKE

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

Waste Disposal Methods:DISPO
SAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
RECOMMENDED PROCEDURE IS BY INCINERATION.

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