

## **F THINNER**

### **MSDS Number**

BJKLP

### **National Stock Number**

8010-00N011923

### **Product Name**

F THINNER

### **Manufacturer**

MARKEM CORP

### **Product Identification**

Product ID: F THINNER  
MSDS Date: 04/19/1990  
FSC: 8010  
NIIN: 00N011923  
MSDS Number: BJKLP

### **Responsible Party**

MARKEM CORPORATION  
150 CONGRESS STREET  
KEENE, NH 03431  
US  
Emergency Phone: 603-352-1130  
Info Phone: 603-352-1130  
Cage: 38360

### **Contractor**

MARKEM CORPORATION  
KEENE, NH 03431  
US  
603-352-1130  
Cage: 38360

### **Ingredients**

METHYL ISOBUTYL KETONE (SARA III)  
CAS: 108-10-1  
RTECS: SA9275000  
Fraction By Weight: 0-2%  
OSHA PEL100 PPM/75 STEL  
ACGIH TLV: 50 PPM/75 STEL; 9293  
EPA Report Quantity: 5000 LBS  
DOT Report Quantity: 5000 LBS

ETHYL ACETATE (SARA III)  
CAS: 141-78-6  
RTECS: AH5425000  
Fraction By Weight: 0-2%

OSHA PEL400 PPM

ACGIH TLV: 400 PPM; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

METHYL ALCOHOL (METHANOL) (SARA III)

CAS: 67-56-1

RTECS: PC1400000

Fraction By Weight: 0-5%

OSHA PELS,200PPM/250STEL

ACGIH TLV: S,200PPM/250STEL; 93

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

ETHYL ALCOHOL (ETHANOL)

CAS: 64-17-5

RTECS: KQ6300000

Fraction By Weight: >90%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9192

BALANCE OF FORMULATION IS CONSIDERED TO BE NONHAZARDOUS

OSHA PELN/K

ACGIH TLV: N/K

## Hazards

LD50 LC50 Mixture:N/K

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

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

Health Hazards Acute and Chronic:DERMAT POSS.REPEATED ETHANOL INGEST BY

PREGNANT MOTHERS ADVERSELY AFFECTS FETAL CENTRAL NERVOUS SYSTEM

(FETAL ALCOHOL SYNDROME) INCLUDING MENTAL & PHYSICAL

RETARDATION,LEARNING DISTURBANCES,MOTOR & LA NGUAGE

DEFICIENCIES,BEHAVIORAL DISORDERS,AND SMALL SIZE HEAD.INGEST MAY

CAUSE BLINDNESS,DEATH.TARGET ORGANS:CNS,SKIN.

Explanation of Carcinogenicity:NONE

Effects of

Overexposure:EYES:IRRIT,DISCOMFORT,TEARING,REDNESS,STINGING.SKIN:IR

RIT,DEFAT,DERMAT.INGEST:IRRIT,NAUSEA,VOMIT,DIARR,INTOXICATION,BLIND

NESS,DEATH.INHAL:NASAL & RESP IRRIT,BURNING SENSATION IN NOSE &

THROAT,DIZZ,WEA K,FATIGUE,NAUSEA,HEADACHE,VOMIT,POSS UNCON.CONC

>1000 PPM FOR >1 HR:DROW,LASS,APPETITE LOSS,INABILITY TO

CONCENTRATE.

Medical Cond Aggravated by Exposure:REPEATED ETHANOL EXPOSURE MAY

EXACERBATE PRIOR LIVER INJURIES.

## First Aid

First Aid:EYES:FLUSH W/ WATER FOR AT LEAST 15 MIN.CALL MD

IMMED.SKIN:WASH W/ SOAP & WATER.GET MED ATTN.INGEST:IF

CONSCIOUS,GIVE 2 GLASSES OF WATER & INDUCE VOMIT.NEVER GIVE

ANYTHING BY MOUTH TO UNCON PERSON.GET MED ATTN IMMED.MD

NOTE:EMESIS INDICATED UNLESS PATIENT IS/MAY BECOME

OBTUNDED,COMATOSE,CONVULSING.MOST EFFECTIVE W/IN 30 MIN.DOSE IPECAC

SYRUP,ADULT:30 ML.INHAL:REMOVE TO FRESH AIR.IF BRTHG (SEE SUP)

## Fire Fighting

Flash Point:55F,13C  
Lower Limits:3.3%  
Upper Limits:19%  
Extinguishing Media:CARBON DIOXIDE,ALCOHOL FOAM,DRY CHEMICAL,WATER SPRAY,HALON.  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .  
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL ALONG GROUND & BE IGNITED AT DISTANT LOCATIONS & FLASH BACK.HAZ  
DECOMP PROD:CO,CO\*2.AUTOIGNIT TEMP:363C,685F.

## Accidental Release

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION.ABSORB SPILLED MATERIAL WITH VERMICULITE OR FLOOR ABSORBENT.DISPOSE OF CONTAMINATED MATERIALS PROPERLY.USE SAFETY GOGGLES OR GLASSES WITH SIDE SHIELDS,APPROPRIATE MAS K AND GLOVES.  
Neutralizing Agent:N/K

## Handling

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN A COOL,DRY,WELL-VENTILATED,FIRE-RESISTANT AREA AWAY FROM OXIDIZING AGENTS & SOURCES OF HEAT OR IGNITION.  
Other Precautions:ELECTRICALLY BOND AND GROUND METAL CONTAINERS TO ELIMINATE STATIC SPARKS.CONTAINERS MAY BE HAZARDOUS WHEN EMPTIED.EMPTIED CONTAINERS RETAIN RESIDUES WHICH CAN GENERATE VAPORS W/IN FLAMM LIMITS;OBSERVE ALL HAZARD PRECAUTIONS.

## Exposure Controls

Respiratory Protection:SUFFICIENT TO MAINTAIN EXPOSURE BELOW OCCUPATIONAL EXPOSURE STANDARDS.ENGINEERING OR ADMINISTRATIVE CONTROLS OR NIOSH/MSHA APPROVED RESPIRATORS CAN BE USED TO REDUCE EXPOSURE.ENGINEERING CONTROLS PREFERRED.  
Ventilation:SUFF TO MAINTAIN EXPOS BELOW OCCUP STD.LOC EXHAUST HOODS-AT LEAST 100 LFM FACE VELOCITY.USE EXPLO-PROOF EQUIP.(SEE SUP)  
Protective Gloves:NATURAL RUBBER,NEOPRENE,NITRILE,VITRON.  
Eye Protection:SAFETY GLASSES W/ SIDE SHIELDS/GOGGLES.  
Other Protective Equipment:EYEWASH STATIONS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN AREAS OF HANDLING AND USE.  
Work Hygienic Practices:LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
ROUTES OF ENTRY:INGESTION ;SKIN CONTACT (MFR).FIRST AID PROC:IS DIFFICULT,GIVE O\*2.IF BRTHG STOPS,GIVE ARTF RESP.KEEP WARM,QUIET,GET MED ATTN IMMED. VENT:MAY REQ SUPP VENT FOR PERS PROT & CONTROL OF FIRE/EXPLO HAZ.QUALIFIED INDEPENDENT TESTING COMPANY CAN DETERMINE IF EXISTING CONC W/IN REC/PERMISSIBLE LEVELS.

## Chemical Properties

HCC:F3  
Boiling Pt:B.P. Text:N/K  
Melt/Freeze Pt:M.P/F.P Text:N/K  
Decomp Temp:Decomp Text:N/K  
Vapor Pres:47 MMHG  
Vapor Density:N/K  
Spec Gravity:0.79  
Evaporation Rate & Reference:3.30,N-BUTYL ACETATE=1.0  
Solubility in Water:COMPLETE  
Appearance and Odor:CLEAR,COLORLESS LIQUID;ALCOHOL ODOR.  
Percent Volatiles by Volume:100

## Stability

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS SUCH AS CHLORINE,NITRIC ACID,PERMANGANATE OR CHROMATE IN ACID SOLUTIONS.  
Stability Condition to Avoid:HEAT AND FLAME.

Hazardous Decomposition Products:CO,CO\*2.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

## Disposal

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE W/ FEDERAL,STATE & LOCAL REGULATIONS .UNDER RCRA,WASTE MATERIAL GENERATOR MUST DETERMINE IF WASTE IS HAZ.USES,TRANSFORMATIONS,MIXS,PROCESSES,ETC MAY RENDER MATL HA Z.CONTACT FEDERAL,STATE,LOCAL AUTH FOR DISP INFO.

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