Material Safety Data Sheet

SECTION I - Material Identity

Item Name........................................... METHYL ETHYL KETONE, TECHNICAL
Part Number/Trade Name......................... METHYL ETHYL KETONE
National Stock Number......................... 6810002812735
CAGE Code............................. 8W415
Part Number Indicator......................... A
MSDS Number.................................. 184620
HAZ Code................................. D

SECTION II - Manufacturer's Information

Manufacturer Name............................ STARTEX CHEMICAL, INC. (DIST. BY CSD)
P.O. Box......................................... 687
Street..........................................
City............................................. CONROE
State........................................... TX
Country........................................ US
Zip Code....................................... 77305
Emergency Phone............................. 409-539-6244/800-424-9300 (CHEMTREC)
Information Phone........................... 409-539-6244

MSDS Preparer's Information

Street........................................... PO BOX 3087
City............................................. CONROE
State........................................... TX
Zip Code....................................... 77305
Date MSDS Prepared/Revised................... 16OCT96
Date of Technical Review..................... 24SEP93
Active Indicator............................. N

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Specification Number........................... TT-M-261D
Specification Type/Grade/Class............... NONE
Hazard Storage Compatibility Code........... NA
NRC License Number........................... NR
Net Propellant Weight (Ammo)................. NR
Appearance/Odor................................ COLORLESS, MOBILE LIQUID, PUNGENT ODOR


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Boiling Point.......................... 175°F, 79°C
Melting Point.......................... 124°F
Vapor Pressure.......................... 70.9@68°F
Vapor Density.......................... 2.5
Specific Gravity.......................... .81
Decomposition Temperature.............. NR
Evaporation Rate.......................... 3.8 (N-BUTYL ACETATE = 1)
Solubility in Water....................... APPRECIABLE
Percent Volatiles by Volume............ 100
Chemical pH................................ NR
Corrosion Rate.......................... NR
Container Type.......................... F
Container Pressure Code.................. 1
Temperature Code.......................... 4
Product State Code....................... L

SECTION IV - Fire and Explosion Hazard Data

Flash Point.......................... 23
Flash Point Method....................... TCC
Lower Explosion Limit.................. 1.0
Upper Explosion Limit.................. 11.5
Extinguishing Media...................... DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM. WATER MAY BE INEFFECTIVE, BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS
Special 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 Hazards........ VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

SECTION V - Reactivity Data

Stability............................... YES
Stability Conditions to Avoid............. HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES
Materials to Avoid........................ STRONG OXIDIZING AGENTS
Hazardous Decomposition Products........ CARBON MONOXIDE, CARBON DIOXIDE AND OTHER UNIDENTIFIED HYDROCARBONS
Hazardous Polymerization.................. NO
Polymerization Conditions to Avoid....... NOT RELEVANT
LD50 - LD50 Mixture....................... TLV 200 PPM

SECTION VI - Health Hazard Data

Route of Entry: Skin.......................... YES
Route of Entry: Ingestion.................. YES
Route of Entry: Inhalation.................. YES

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Health Hazards - Acute and Chronic...... ACUTE- EYE: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN: PROLONGED/REPEATED CONTACT MAY IRRITATE & CAUSE DERMATITIS. INHALE: MAY CAUSE RESPIRATORY TRACT IRRITATION, CNS EFFECTS, UNCONSCIOUSNESS & EVEN DEATH. ORAL: IF ASPIRATED, CAN CAUSE CHEMICAL PNEUMONITIS. CHRONIC- MAY CAUSE DERMATITIS.

Carcinogenicity: NTP.......................... NR
Carcinogenicity: IARC.......................... NR
Carcinogenicity: OSHA.......................... NR
Explanation of Carcinogenicity................. NR

Symptoms of Overexposure...................... SEVERE EYE IRRITATION, TEARING, BLURRED VISION, SKIN IRRITATION, DEFATING, DERMATITIS, RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, WEAKNESS, FATIGUE, GASTROINTESTINAL TRACT IRRITATION, NAUSEA, VOMITING AND DIARRHEA

Medical Cond. Aggravated by Exposure..... PERSONS WITH PRE-EXISTING DISEASES INVOLVING THE EYES, SKIN, LUNGS OR CNS MAY BE AT INCREASED RISK FROM EXPOSURE.


SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled...... 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
Waste Disposal Method....................... DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. RECOMMENDED PROCEDURE IS BY INCINERATION.

Handling and Storage Precautions.......... STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM SPARKS & OXIDIZERS. BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID.

Other Precautions............................ "EMPTY" CONTAINERS MAY 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.
SECTION VIII - Control Measures

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,
EXlosion-Proof) VENTILATION TO MAINTAIN
EXPOSURE BELOW TLV(S).
Protective Gloves............................... BUTYL RUBBER OR PVA RECOMMENDED
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....................... USE GOOD PERSONAL HYGIENE PRACTICES.
LAUNDER CONTAMINATED CLOTHING BEFORE
WEARING. FLUSH SPILL AREA WITH WATER
SPRAY.
Supplemental Health/Safety Data............... AVOID PROLONGED OR REPEATED EXPOSURE. DO
NOT GET ON SKIN OR IN EYES. DO NOT BREATHE
VAPORS. DO NOT INGEST. READ PRECAUTIONS ON
LABEL BEFORE USE.
Disposal Code................................... 0

SECTION IX - Label Data

Protect Eye....................................... YES
Protect Skin..................................... YES
Protect Respiratory............................ NO
Chronic Indicator................................. UNKNOWN
Contact Code..................................... SEVERE
Fire Code........................................ UNKNOWN
Health Code..................................... UNKNOWN
React Code...................................... UNKNOWN

SECTION X - Transportation Data

Container Quantity............................. 1
Unit of Measure.................................. GL

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)........... 6.67
Volatile Organic Compounds (G/L)........... 799.325

SECTION XII - Ingredients/Identity Information

Ingredient #..................................... 01
Ingredient Name................................ METHYL ETHYL KETONE (2-BUTANONE) (MEK)
CAS Number...................................... 78933
Proprietary...................................... NO
Percent................................. 100
OSHA PEL................................. 200 PPM/300 STEL
ACGIH TLV................................. 200 PPM/300 STEL

NOTICE: For additional information, contact BIOENVIRONMENTAL