

COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: METHYL ETHYL KETONE  
NEW MSDS DATE: 01/24/2008

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MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1, using the International Chemical Safety Cards of the Global Harmonizing System.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: METHYL ETHYL KETONE  
COMPANY IDENTITY: CSD/STARTEX  
COMPANY ADDRESS: P O BOX 3087  
COMPANY CITY: CONROE, TX 77305  
COMPANY PHONE: 1-936-228-0865  
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 99-100% METHYL ETHYL KETONE (78-93-3)[201-159-0]  
Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.  
R11 Highly Flammable.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapors may cause drowsiness and dizziness.

SAFETY STATEMENTS:

S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition. No smoking.

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#### SECTION 4. FIRST AID MEASURES

##### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

##### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

##### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

##### SWALLOWING:

Rinse mouth. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

#### SECTION 5. FIRE FIGHTING MEASURES

##### FIRE & EXPLOSION PREVENTIVE MEASURES

NO open flames, NO sparks, & NO smoking. Use a closed system, ventilation, explosion-proof electrical equipment, lighting.

##### EXTINGUISHING MEDIA

Use dry powder, AFFF, foam, carbon dioxide.

##### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

##### UNUSUAL EXPLOSION AND FIRE PROCEDURES

HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.  
Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Empty container very hazardous! Continue all label precautions!

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### PERSONAL PROTECTIVE MEASURES:

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.  
Keep unprotected personnel away. Remove all ignition sources.  
Use self-contained breathing apparatus.

##### CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain.  
Absorb remaining liquid in sand or inert absorbent. Remove to safe place.  
Do NOT wash away into sewer.

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#### SECTION 7. HANDLING AND STORAGE

##### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.  
Avoid contact with skin & eyes.  
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

##### STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Keep cool.  
Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

##### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

##### VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

##### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

##### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

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SECTION 9. PHYSICAL DATA

APPEARANCE :	Liquid, Water-White
ODOR :	Ketone
BOILING RANGE :	77 79 81 C / 172 175 178 F
AUTO IGNITION TEMPERATURE :	515 C / 960 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.8
FLASH POINT (TEST METHOD):	-2 C / 28 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class I B
GRAVITY @ 68/68 F / 20/20 C :	
API :	44.3
SPECIFIC GRAVITY (Water=1) :	0.805
POUNDS/GALLON :	6.705
VOC'S (>0.44 Lbs/Sq In) :	100.0 Vol. % / 805.0 g/L / 6.705 Lbs/Gal
TOTAL VOC'S (TVOC) :	100.0 Vol. % / 805.0 g/L / 6.705 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	100.0 Vol. % / 805.0 g/L / 6.705 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) :	0.0 Wt. % / 0.0 g/L / 0.000 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	70.0
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	70.0
VAPOR DENSITY (air=1) :	2.5
WATER ABSORPTION :	Appreciable
REFRACTIVE INDEX :	1.379

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID

Reacts with strong oxidants, causing fire & explosion hazard. .

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Methyl Ethyl Ketone	78-93-3	None Known	300 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure  
can cause serious nervous system depression. Vapor harmful.

SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH,  
OSHA or ACGIH, as of this date, greater or equal to 0.1%.

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#### SECTION 12. ECOLOGICAL INFORMATION

##### MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Methyl Ethyl Ketone	78-93-3	LOWEST KNOWN LD50 (ORAL) 3400.0 mg/kg(Rats)
Methyl Ethyl Ketone	78-93-3	LOWEST KNOWN LC50 (VAPORS) 2000 ppm (Rats)
Methyl Ethyl Ketone	78-93-3	LOWEST KNOWN LD50 (SKIN) 12600.0 mg/kg (Rabbits)

##### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is: Fish exposed to 5120 ppm or mg/L are adversely affected by components of this product. Keep out of sewers and natural water supplies.

##### MOBILITY

This material is a mobile liquid.

##### DEGRADABILITY

This product is completely biodegradable.

##### ACCUMULATION

This product does not accumulate or biomagnify in the environment.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

#### SECTION 14. TRANSPORT INFORMATION

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.  
DOT SHIPPING NAME: UN1193,Methyl Ethyl Ketone,3,PG-II  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN1193,Methyl Ethyl Ketone,3,PG-II  
IMO / IMDG: UN1193,Methyl Ethyl Ketone,3,PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 127

#### SECTION 15. REGULATORY INFORMATION

##### EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.  
This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
Methyl Ethyl Ketone	78-93-3	100 (311,312)	5000

> 5000 LB / 2272 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF METHYL ETHYL KETONE.

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:  
Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 2, FLAMMABILITY: 3, REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 3 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.