

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Ethyl Ketone
PRODUCT CODE:

DATE: 07/01/02

CAS # 78-93-3

FORMULA:

CHEMICAL NAME/FAMILY: Ketone

CHEMICAL SYNONYMS: MEK, Ethyl Methyl Ketone

SUPPLIERS NAME: Nizhnekamskneftekhim USA
92 Front Street
Hempstead, NY 11550

SUPPLIERS PHONE NUMBER: 516 542 0500

TRANSPORTATION EMERGENCY PHONE NUMBER: 1-800-424-9300

S.A.R.A. INFORMATION

HAZARDS: Fire: Pressure: Reactivity: Acute: Chronic:
PHYSICAL DATA: Mixture: Pure: Solid: Liquid: X Gas:

SECTION I Hazardous Ingredients

Ingredient	Percent	TLV
Methyl Ethyl Ketone	100%	200 ppm

◆ - This chemical is subject to S.A.R.A. Title III Section 313 part 372 reporting.

SECTION II Health Hazards

Threshold Limit Value: 200 ppm

Potential Effects of Exposure (listed by primary routes of entry)

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

CONTINUED ON PAGE 02

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Ethyl Ketone DATE: 07/01/02 03
PRODUCT CODE:

SECTION III Special Protection Information

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded, a HIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

Ventilation Required: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Protective Clothing:

Eyes: Chemical splash goggles in compliance with OSHA regulations are advised; however OSHA regulations also permit other type safety glasses. (Consult your safety equipment supplier)

Skin: Wear resistant gloves such as natural rubber, neoprene impervious clothing and boots.

SECTION IV Fire & Explosion Hazard Data

Flash Point (Method): 23°F (-5°C)

Flammable Limits (% by Volume in Air):

Upper: 11.4%

Lower: 1.4%

Extinguishing Media: Alcohol foam or carbon dioxide or dry chemical.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full face piece operated in the positive pressure demand mode when fighting fires.

CONTINUED ON PAGE 04

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Ethyl Ketone DATE: 07/01/02 04
PRODUCT CODE:

SECTION IV Fire & Explosion Hazard Data CONTINUED

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. All five-gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

SECTION V Physical Data

Boiling Point: 175°F (79.44°C) @ 760.00 mm Hg
Specific Gravity (H(2)O=1): .805 - .807 @ 68°F (20.°C)
Vapor Pressure (MM HG.): 70.00 mm Hg @ 68°F (20°C)
Vapor Density (AIR=1): 2.5
Evaporation Rate (Butyl Acetate=1): 5.70
Solubility in Water:
Percent Volatile by Volume: 100%
PH:
Freezing Point:
Appearance and Odor: Clear, colorless liquid with a characteristic pungent odor.

SECTION VI Reactivity Data

Stability: Stable
Incompatibility: Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products: May form toxic materials; carbon dioxide and carbon monoxide, various hydrocarbons etc.
Hazardous Polymerization: Cannot occur.

CONTINUED ON PAGE 05

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Ethyl Ketone DATE: 07/01/02 05
PRODUCT CODE:

SECTION VII Spill and Leak Procedures

Steps to be taken if material is released or spilled:

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Waste Disposal Method:

Large Spill: Destroy by liquid incineration.

Small Spill: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations. Contaminated absorbent may be deposited in a landfill in accordance with local, state, and federal regulation.

SECTION VIII D.O.T. Shipping Information

Proper shipping Name: Methyl Ethyl Ketone

Hazard Class: Class 3 Flammable

ID Number: UN 1193

Label Requirements: Flammable Liquid

Reportable Quantity:

CONTINUED ON PAGE 05

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Ethyl Ketone DATE: 07/01/02 06
PRODUCT CODE:

SECTION IX Additional Information

This information may be of importance to you:

FURTHER PRECAUTIONARY MEASURES: Containers of this material may be hazardous when emptied since emptied containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given in the data sheet must be observed.

References:

NFPA/HMIS RATING:

Health- 1

Flammability- 3

Reactivity- 0

Special Protection-

***** END OF REPORT *****

FOR Nizhnekamskneftekhim USA

DATE ISSUED: 07/01/02

DATE REVISED:

< = LESS THAN

N/A = NOT APPLICABLE

UKN = UNKNOWN

> = MORE THAN

N/D = NOT DETERMINED

N/E = NOT ESTABLISHED

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