

**MEK (METHYL ETHYL KETONE)
LOCAL SALES SPECIFICATION,
PRODUCT INFORMATION
AND SAFETY DATA SHEET**

SPECIFICATION

Properties	Units	Limits	Test method
MEK content	Mass %	99,5 min	GC
Water content	Mass %	0,5 max	ASTM D1364

OTHER PHYSICAL PROPERTIES

Properties	Units	Typical values	Test method
Distillation at 101,3 kPa			ASTM D86
Initial Boiling Point	°C	79,2	
Dry Point	°C	80,5	
Density at 20°C	Kg/l	0,803 – 0,806	ASTM D1298
Acidity as CH ₃ COOH	Mg/kg	11	ASTM D1613
Residue on evaporation	Mg/kg	4,0	ASTM D1353
Permanganate test at 25°C	Minutes	180	ASTM D1363
Flash point (closed cup) at 101,3 kPa	°C	-6,0	IP 170
Colour	Hazen	Approximately 0	ASTM D1209
Appearance	-	Clear and free of sediment	VISUAL

Shelf life Minimum 12 months.

Hazchem number: 2YE

UN number: 1193

Uses:

A solvent in the following applications: lacquers, lacquer thinners, epoxy thinners, natural and synthetic resins, polyurethane adhesives, gums and rubber, liquid printing inks, PVC cloth manufacture and as a cleaning agent for metal surfaces. Refining and dewaxing of mineral and lubricating oils. Production of MEK peroxide and pharmaceuticals.

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Product Name	MEK
Commercial Product Name	Methyl Ethyl Ketone
Synonyms	2-Butanone

HEALTH HAZARD INFORMATION		
Causes	Symptoms	Emergency and first aid procedures
Inhalation (Breathing)	Vapour is irritating to nose and throat, will cause nausea, vomiting, dizziness or headache.	Remove from exposure. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention
Skin Contact / Absorption	Irritating to skin, if allowed to remain, may cause smarting and reddening of the skin. Not readily absorbed.	Wash thoroughly with soap and water.
Eye Contact	Will burn eyes and may cause severe damage. Eye irritation can occur at concentrations as low as 350 ppm.	Flush the eyes with plenty of water, in severe cases, obtain medical attention.
Ingestion (Swallow)	Harmful if swallowed, may cause gastric irritation and narcosis.	Wash out mouth thoroughly with water and give water or milk to drink. Obtain medical attention.
Acute over-exposure	If present in high concentrations, vapours cause moderate irritation of the eyes or respiratory system. Effect is temporary.	

HAZARDOUS COMPONENTS			REACTIVITY DATA	
Components	%	Hazard Data	Conditions contributing to instability	
MEK	99	TLV = 200 ppm		Reacts violently with chlorosulphonic acid, oleum, potassium-tert-butoxide, chloroform hydrogen peroxide or nitric acid

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			Incompatibility	Not pertinent
			Hazardous decomposition products	None
			Conditions contributing to hazardous polymerization	Not pertinent

SPECIAL PROTECTION DATA		SPILL OR LEAK PROCEDURES	
Ventilation requirements	Area must be well ventilated.	Steps to be taken if material is released or spilled: Neutralising chemicals Waste disposal method	Not pertinent Mop up with plenty of water and run to waste, diluting greatly with running water. Ventilate area well to evaporate remaining liquid and dispel vapour.
Respiratory (in detail)	Chemical cartridge respirator.		
Eyes	Safety goggles.		
Gloves	Rubber gloves.		



FIRE AND EXPLOSION DATA		PHYSICAL DATA	
Flash Point (Test method)	-6°C (Closed cup)	Boiling Point (at 760mm Hg)	79,6°C
Auto-ignition temperature	515°C	Melting Point (pour pt)	-85,9°C
Flammable limits in air % by Vol	Lower: 1,8% Upper: 11,5%	Density (at 20°C)	0,806 kg/litre
Extinguishing Media	Alcohol foam, CO2, dry chemical.	Vapour pressure (at 20°C)	71,20mm Hg
Special fire fighting procedures	None.	Vapour density (Air=1)	2,42
Unusual fire and explosion hazards	Dangerous, when exposed to heat or flame.	Solubility in H2O	Floats and mixes with water
		Appearance and odour	Colourless liquid. Acetone-like odour.

Manufacturers note:

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