

METHYL ETHYL KETONE PEROXIDE (Technical product)**1028**

October 2005

CAS No: 1338-23-4
RTECS No: EL9450000
UN No: 31012-Butanone peroxide
Ethyl methyl ketone peroxide
Methyl ethyl ketone hydroperoxide
MEKP
 $C_8H_{16}O_4$
Molecular mass: 176.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with acid(s), base(s), reducing agents. NO contact with hot surfaces.	Powder, carbon dioxide, dry sand, foam, water spray.
EXPLOSION	Risk of fire and explosion acid(s), base(s) and reducing agents.		Combat fire from a sheltered position.
EXPOSURE		STRICT HYGIENE!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Sore throat. Cough. Burning sensation. Laboured breathing. Shortness of breath.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
Skin	Redness. Pain. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Severe deep burns.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Burning sensation in the throat and chest. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.
SPILLAGE DISPOSAL	PACKAGING & LABELLING		
Chemical protection suit including self-contained breathing apparatus. Collect leaking and spilled liquid in sealable plastic containers as far as possible. Do NOT absorb in saw-dust or other combustible absorbents.	UN Hazard Class: 5.2 UN Subsidiary Risks: 1 and 8 UN Pack Group: II		
EMERGENCY RESPONSE	SAFE STORAGE		
Transport Emergency Card: TEC (R)-52GP1-L	Store only if stabilized. Well closed. See Chemical Dangers.		

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH PUNGENT ODOUR.

Chemical dangers

Heating may cause violent combustion or explosion. On combustion, forms toxic and corrosive gases. The substance is a strong oxidant and reacts violently with combustible and reducing materials amines, metals, strong acids, strong bases,, causing fire and explosion hazard.

Occupational exposure limits

TLV: 0.2 ppm (Ceiling value) (ACGIH 2005).
MAK not established.

Routes of exposure

The substance can be absorbed into the body by inhalation and by ingestion.

Inhalation risk

A harmful concentration of airborne particles can be reached quickly when dispersed.

Effects of short-term exposure

The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion.

PHYSICAL PROPERTIES

Boiling point (decomposes): >80/C
Relative density (water = 1): 1.10-1.17

Solubility in water: very poor

ENVIRONMENTAL DATA

NOTES

The occupational exposure limit value should not be exceeded during any part of the working exposure.
Technical product is sold with 40-60% of diluent (for example, dimethyl phthalate, cyclohexanol peroxide, diallyl phthalate) to reduce potential explosion hazard.

An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert.

Rinse contaminated clothes (fire hazard) with plenty of water.

Other UN numbers 3105, 3107 for Organic peroxide.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information