

MATERIAL SAFETY DATA SHEET

Generic MSDS

For reference purposes only

Hazardous according to criteria of Worksafe Australia.

I IDENTIFICATION

Product Name: Methyl Ethyl Ketone Peroxide

Other Names: MEKP Correct Shipping Name is "ORGANIC PEROXIDE TYPE D".

UN No: 3105

Hazchem Code: 2WE

Dangerous Goods Class: Class 5.2 (Organic Peroxide)

Sub Risk Class: No Subsidiary Risk.

Packaging Group: II

EPG: 5K1

Most EPGs may now be substituted by the "Initial Emergency Response Guide" available from Standards Australia.

Poison Schedule: Not Scheduled

Product Type: Organic liquid.

Chemical Family: Organic peroxide in (mainly) dimethyl phthalate.

Uses: Chemical intermediate.

Physical appearance & Properties:

Appearance & Odour: Clear water-white liquid. Slightly pungent odour.

Melting/softening point: Liquid at normal temperatures.

Boiling point and vapour pressure: No data.

Volatile materials: Less than 3

Flashpoint: 82°C

Specific gravity: 1.11

Solubility in water: Less than 1% at 25°C

Corrosiveness: Not corrosive.

Ingredients:

Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA mg/m ³	STEL mg/m ³
Methyl Ethyl Ketone Peroxide	1338-23-4	<45	1.5	peak
Dimethyl phthalate	131-11-3	47	5	not set
Methyl Ethyl Ketone	78-93-3	2	445	890
Other ingredients	secret	to 100	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Swallowed: Data suggests that the product should be considered as toxic by ingestion. Harmful or fatal if swallowed.

Eye: Data suggests that this product should be classified as a dangerous eye irritant. May cause severe irritation with corneal injury which may result in permanent impairment of vision and even blindness.

Skin: Data suggests that product presents high hazard via skin contact. Repeated or prolonged contact may lead to dermatitic effects.

Inhalation: Inhalation may cause irritation of the nose and throat and cause coughing and chest discomfort.

Primary route of exposure is inhalation and skin and eye contact.

LD50 Oral (Rat) 500-5000mg/Kg

MATERIAL SAFETY DATA SHEET

First Aid:

Swallowed: If swallowed, do NOT induce vomiting. Rinse mouth with water. Give a glass of water to drink. Contact a doctor or the Poisons Information Centre if symptoms of poisoning develop.

Eye: If this product comes into contact with eyes, hold eyes open and wash continuously for 15 minutes with running water. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Transport to hospital or doctor immediately.

Skin: If this product comes into contact with skin, wash skin with soap and water for 15 minutes. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. Transport to hospital or doctor immediately.

Inhalation: If fumes or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Combination Risk Phrases are: R36/37/38. Irritating to eyes, respiratory system and skin.

Exposure Standards:

This material has a major ingredient with a TWA value of 1.5 and STEL value of peak. Both values expressed as mg/m³. Exposure values at the STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet.

Engineering Controls:

Ventilation must be adequate to ensure that the working environment is below the TWA value. Otherwise, use respiratory protection. Some materials should only be used when respiratory protection is being worn. For information on respiratory protection, consult AS1716. See below for further information.

Personal Protection:

Respiratory Protection: A face mask or respirator is advised when this material is being used in confined or poorly ventilated areas. Use an organic vapour canister if available.

Protective Gloves: Rubber or PVC gloves should be worn.

Eye Protection: Full face mask, safety glasses or goggles should be worn.

Clothing: Clean overalls should to be worn, preferably with an apron. All skin areas should be covered.

Safety Boots: Wearing safety boots would be advisory.

Flammability Limits: No data

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

IV SAFE HANDLING INFORMATION

Combination Safety Phrases are: S36/37/39. Wear suitable protective clothing, gloves and eye/face protection.

Storage & Transport:

UN number is 3105 and Hazchem code is 2WE. It is classed as "Class 5.2 (Organic Peroxide)"

Not to be transported with Classes 1 (Explosives), 2.1 (Flammable Gases), 2.2 (Non Flammable Gases), 2.3 (Poisonous Gases), 3 (Flammable Liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.2 (Organic Peroxides), 6 (Poisonous Toxic Substances) (nb when substance is capable of being ignited and burning), 7 (Radioactive Substances), 8 (Corrosives), and 9 (Miscellaneous Dangerous Substances) (nb when substance is capable of being ignited and burning). Observe all regulations associated with this classification when carrying by road or rail. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

MATERIAL SAFETY DATA SHEET

Spills and disposals:

In event of a major spill, clear area of personnel. Alert fire brigade and advise of nature & location of spill. Wear full protective clothing and self contained breathing apparatus, especially in confined spaces. Prevent spillage from entering drains or water courses. Stop leak if safe to do so, and contain spill. Absorb onto vermiculite, sand, sawdust or other absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. If material enters drains, advise emergency services. This material may be suitable for approved incineration or landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances. However, very dangerous fire hazard when exposed to flames or oxidisers. Forms explosive mixtures in vapour form. Once ignited, will burn vigorously.

Flashpoint: 82°C

Extinguishing Media: Carbon dioxide, water, water fog or foam.

Special Fire fighting procedures: Firefighters should wear full protective clothing and self contained breathing apparatus when fighting fires involving this product. Cool containers with water.

Unusual fire & Explosion hazards: Heat produces toxic vapours. Heat may cause violent rupture of containers.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: Carbon dioxide, carbon monoxide, water.

Materials to avoid: Strong acids, strong alkalis, reducing agents.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Contact Points:

Police and Fire Brigade:

Dial

AUSTRALIA

000

If ineffective:

Dial

1100 (Exchange)

National Poisons Information Centre:

Dial

13 1126 (from anywhere in Australia)

Reproduced by MSDS.COM under licence from the copywrite holders. If you are interested in having your MSDSs prepared by MSDS.COM, please contact us on 1800 MSDS 55 (1800 6737 55)

Note that this MSDS is in Worksafe format, but is for reference purposes only. Since MSDS.COM does not supply this product, it cannot be held responsible for the provision of information that by law must be provided by the supplier of the product.

If you want your supplier to place his MSDSs on this system, tell him about our service.

Please read all labels carefully before using product.