



1. Identification of the substance and of the company

1.1 Product - commercial product name

CUROX® M100

Formerly known as MEKP-LA3

1.2 Producer/supplier : Peroxide Chemicals (Pty) Limited

Sasol Polymers Midland Factory
Bergius Street
Sasolburg

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2. Composition/information on ingredients

2.1 Product description

METHYL ETHYL KETONE PEROXIDE - Low Activity

2.2 Substance or preparation : Preparation

2.3 Chemical characterisation

CAS number	Substance name
1338-23-4	Methyl Ethyl Ketone Peroxide
131-11-3	Di-Butyl Phthalate

3. Hazards Identification

3.1 Main hazard

The product is an Organic Peroxide which will decompose violently (possible explosion and fire) if heated.

3.2 Special hazards

R7 - May cause fire.

R20/22 - Harmful by inhalation and if swallowed.

R34 - Causes burns.

4. First Aid Measures

4.1 General advice

Irritating to skin and eyes.

4.2 First aid external

Immediately remove all contaminated clothing. Wash skin with soap and plenty of water. In case of contact with the eyes rinse immediately with lots of water and seek medical advice.



4.3 First aid internal

Corrosive if swallowed - may burn mouth, gullet and stomach. Decomposition may occur in the stomach releasing oxygen gas and causing distention. Drink plenty of water and consult a doctor.

5. Fire fighting measures

5.1 Suitable extinguishing media

Water mist, foam and dry powder (for small fires).

5.2 Special considerations

Keep surrounding area cool.

6. Accidental release measures

6.1 Methods of cleaning up

Soak up with inert absorbent material (eg. Vermiculite or clean sand). Product must not be disposed into sewage systems.

6.2 Disposal of absorbent material

Dispose in accordance with local waste disposal regulations.

7. Handling and storage

7.1 Safe handling advice

The product should be kept in the original supply container which must always be in the upright position. Avoid direct sunlight and keep in a well ventilated place. Peroxide residues must not be returned to the original container since this creates a risk of contamination which could cause a decomposition with possible explosion and fire.

Handling and storage continued

7.2 Safe storage

The organic peroxide store must not be used to store any other substances and should be well ventilated. Note the required storage temperature for this product is below 30°C.

7.3 Protection against fire and explosion

Under recommended storage conditions in the original container there is no explosion risk. Product burns violently. In the case of decomposition without flames there is an explosion risk due to the developing gas/air mixture.

8. Exposure controls - Personal protection

8.1 Occupational exposure standards - ACGIH 1994/95

Methyl Ethyl Ketone Peroxide - STEL C0,2ppm (1,5mg/M³)
Di-Butyl Phthalate - TWA 5mg/M³

8.2 Engineering measures

Use only in well ventilated areas.

8.3 General protective and hygiene measures

Do not eat, drink or smoke whilst handling the product. Wash thoroughly before eating, drinking or smoking in a designated area away from the product storage or usage area.



8.4 Personal protective equipment

Use safety goggles or face shield when handling the product. Chemical resistant gloves should also be worn.

9. Physical and chemical properties

9.1 Form : Liquid.

9.2 Colour : Colourless.

9.3 Smell : Stinging (ketone like).

9.4 Melting point : below -25°C.

9.5 Boiling point : Not applicable (decomposition).

Physical and chemical properties continued

9.6 Flash point : Approx 68°C (Setaflash).

9.7 Density : 1.15 gm/ml @ 20°C

9.8 Solubility : 1% miscible in water.

10. Stability and reactivity

10.1 Conditions to avoid

Heating the product since this promotes decomposition. Self accelerating decomposition will occur at approx. 60°C (SADT).

10.2 Materials to avoid

Incompatible with accelerators, strong acids or alkalis, heavy metal salts and reducing agents - any of these materials will promote product decomposition. Do not allow the product to wet any organic material (cloth, paper etc.) since this will cause fire.

10.3 Hazardous decomposition products

Decomposition causes the release of flammable gases.

11. Toxicological information

11.1 Toxicological information I (oral)

LD₅₀ (oral, male rat) 1017.0 mg/kg

11.2 Toxicological information II (inhalation)

LC₅₀ (inhalation, rat 4 hours) 17.0mg/l

11.3 Toxicological information III (dermal)

LD₅₀ (dermal, rabbit) 4000.0 mg/kg

11.4 General toxicological information

Irritating to skin and eyes.
Ames test negative.



12. Ecological information

The product could be dangerous to water and must be prevented from entering waterways or sewers.

13. Disposal considerations

13.1 Disposal of product

An appropriate method of disposal is to dilute the product with cheap alcohol or kerosene to an available oxygen content of < 1% (1 part product and 10 parts diluent) and then burn the mixture in small quantities under controlled conditions.

Where product has been absorbed in sand or vermiculite the resultant material should be burnt in small quantities under controlled conditions.

Product must always be disposed in accordance with locally valid waste disposal regulations.

13.2 Disposal of packaging

Packaging must never be used for water or any other liquids used for drinking.

Dispose of packages in accordance with local regulations.

14. Transport information

14.1 UN Number : 3105

14.2 Correct shipping name

ORGANIC PEROXIDE TYPE D, LIQUID

14.3 Road transport

ADR class 5.2 - packaging group II (SABS 232)

14.4 Rail transport

RID class 5.2 - packaging group II (SABS 232)

14.5 Sea transport

IMDG class 5.2 - packaging group II

14.6 Air transport

IATA 3105, 5.2

14.7 Hazchem code

2WE

15. Regulatory information

15.1 R-phrases

R7 - May cause fire.

R20/22 - Harmful if inhaled or swallowed.

R34 - Causes burns.

15.2 S-phrases

S3/7 - Keep container tightly closed in a cool place.



S14 - Keep away from strong acids, alkalis, heavy metal salts and reducing agents.

S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S50 - Do not mix with reducing agents.

16. Other information

16.1 Reason for revision : First issue.

16.2 Print date : 22 September 2013

16.3 Final note

The information contained in this document is accurate to the best of our knowledge but is not intended to guarantee specific properties of the product. Existing regulations are to be observed by our customers at their own responsibility.

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