

# Material Safety Data Sheet



**UNITED INITIATORS**

*driving your success*

**Product:** Curox M-100

Print Date: 23.10.08

## 1. Identification of the substance/preparation and of the company/undertaking

**Commercial product name:** Curox M 100

**Producer:** United Initiators Pty Ltd  
20-22 McPherson Street  
Banksmeadow NSW 2019 Australia

**Emergency information**  
(phone number): **1800 023 488**

Poisons Schedule: 5

Product use: chemicals for industrial use

## 2. Hazards identification

**Classified as hazardous according to the criteria of NOHSC**

**Classified as dangerous good according to the ADG Code**

**Special hazards (concerning man and environment):**

May cause fire.  
Harmful if swallowed.  
Causes burns.

## 3. Composition/information on ingredients

**Product description:**

Methyl ethyl ketone peroxide (MEKP), liquid mixture

**Chemical characterisation (preparation):**

Methyl ethyl ketone peroxide(s) CAS-no.: 1338-23-4	<b>O, R7, C, R34; Xn, R22;</b> EEC-no.: 215-661-2	< 40%
Methyl ethyl ketone CAS-no.: 78-93-3	<b>F, R11, Xi, R36; R66; R67;</b> EEC-no.: 201-159-0	< 10%
Hydrogen peroxide CAS-no.: 7722-84-1	<b>C, R34;</b> EEC-Nr.: 231-765-0	< 5%
Dimethyl Phthalate CAS-no.: 131-11-3	<b>R20/22, R36/37</b>	30-60%

Additional information: The information shown on the labels is given under heading 15

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## 4. First aid measures

### **General advice:**

Take off immediately all contaminated clothing.

### **First aid external:**

After skin contact: Wash skin with soap and plenty of water. Seek medical advice.

In case of contact with eyes, rinse immediately with plenty of water. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Then seek medical advice.

### **First aid internal:**

If inhaled: Bring victim to the fresh air. In doing so, observe self-protection. Seek medical advice immediately.

If swallowed: Rinse mouth thoroughly with water and then drink copious amounts of water. Do NOT induce vomiting. Seek medical advice immediately.

## 5. Fire-fighting measures

### **Suitable extinguishing media:**

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

### **Unsuitable extinguishing media:**

Water jet

### **Additional advices:**

In case of fire and decomposition formation of inflammable/explosive, irritant, corrosive, harmful/ toxic gases and vapours possible.

### **Special protective equipment for fire-fighters:**

Do not breathe fire gases. Wear self-contained breathing apparatus and fully protective clothing.

### **Additional information:**

Fight the blaze from a safe distance. Cool down containers with water.

Do not dispose fire-fighting water into the sewerage system!

Contaminated areas, buildings and equipment must not be used until they are properly decontaminated.

**Hazchem Code:** 2WE

## 6. Accidental release measures

### **personnel protective measures:**

Avoid contact with the product. Do not breathe vapour/aerosol. Wear suitable protective clothing, gloves, eye/ face protection and suitable respiratory protection. Ensure good ventilation and exhaust ventilation.

### **Environmental protective measures:**

Avoid release to the environment. Product must not be disposed of into sewerage system!

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## **Methods for cleaning up:**

Take/ pick up cautiously (e.g. with a clean PE-shovel). Avoid friction. Alternatively or in addition, soak up with inert absorbent material (e.g. Vermiculite, clean sand).

## **Additional information:**

Keep away from sources of ignition (e.g. sparks, flames) - No smoking.

Never add other substances or other waste to product residues. Bring product residues to a safe place, eliminate immediately in accordance with locally valid waste disposal regulations.

Contaminated areas, buildings and equipment must not be used until they are properly decontaminated.

## **7. Handling and storage**

### **Safe handling advice:**

The product should be stored in the closed supply container at temperatures **below +35°C**. Keep in a well-ventilated place. Keep away from ignition and heat sources (e.g. direct sun light). Keep separated from other dangerous and incompatible substances. Avoid contamination with e.g. rust, dust, ash (danger of decomposition).

Avoid contact with skin, eyes and clothing. At the end of work and before breaks, hands should be washed. Prophylactic skin protection recommended.

Use with adequate ventilation. Suction off product vapours at their point of generation. Avoid formation of aerosols. Do not breathe vapour/ aerosol. Wear suitable respiratory protection if necessary.

Peroxide residues must not be returned into the original container, danger of decomposition!

### **Protection against fire and explosion:**

Under recommended storage conditions in the original container no explosion risk. Flammable liquid.

Product burns violently.

Formation of ignitable/ explosive vapour-air-mixtures possible. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

In case of decomposition without flames, explosion risk exists due to developing gas-air-mixture.

## **8. Exposure controls / personal protection**

The National Occupational Health and Safety Commission has established an exposure standard for the following ingredients:

MEKP	1.5	mg/m <sup>3</sup>
Methyl ethyl ketone	445	mg/m <sup>3</sup>
Hydrogen peroxide	1.4	mg/m <sup>3</sup>
Dimethylphthalate	5	mg/m <sup>3</sup>

### **Personal protective measures:**

Do not eat, drink or smoke while handling the product.

Prophylactic skin protection is recommended.

At the end of work and before breaks, hands should be washed.

Avoid contact with eyes and skin.

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### **Respiratory protection:**

To reduce potential for inhalation exposure (short time or small exposure) use an approved organic vapour respirator with dust, mist and fume filter. Recommended: Filter class A

Where exposure potential necessitates a higher level of protection use a self-contained breathing apparatus.

Respiratory protection should comply with AS 1716 and be selected in accordance with AS 1715

### **Hand protection:**

Protective gloves

Suitable type of material Butyl rubber; breakthrough time of the glove material  $\geq$  8 hours.

Hand protection should comply with AS 2161

### **Eye protection:**

Chemical goggles and/ or full face shield. Eye protection should comply with AS 1337 and be selected in accordance with AS 1336

### **Body protection:**

Skin contact with this product should be prevented by the use of suitable protective clothing

## 9. Physical/chemical properties

<b>Form/ physical state:</b>	liquid
<b>Color:</b>	colourless
<b>Smell:</b>	n.d.a
<b>Melting point:</b>	n.d.a
<b>Boiling point:</b>	n.a (decomposition)
<b>Flash point:</b>	approx. 63°C (ISO 3679/80, SETAFLASH)
<b>Ignition temperature:</b>	n.d.a
<b>Explosion limits:</b>	n.d.a
<b>Vapour pressure:</b>	50 kPa @ 55°C
<b>Density:</b>	approx. 1.15g/cm <sup>3</sup> @ 20°C
<b>Solubility:</b>	1% miscible

## 10. Stability and reactivity

### **Conditions to avoid:**

Keep away from sources of ignition and heat. At or above 60°C self-accelerating decomposition possible

### **Materials to avoid:**

Keep away from strong acids, bases, heavy metal salts, reducing agents and accelerators. Contaminants (e.g. rust, dust, ash). Combustible materials.

### **Hazardous decomposition products:**

In case of fire and decomposition formation of inflammable, irritant, corrosive, harmful/ toxic gases and vapours possible.

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## **Thermal decomposition:**

SADT (UN-Test H.4): approx. 60°C

## **11. Toxicological information**

### **Methyl ethyl ketone peroxide(s):**

LD50 (oral, rat): 1017mg/kg (MEKP-40% in Dimethylphthalate)

LD50 (dermal, rat): 1,8ml/kg - 3,6ml/kg (MEKP-60% in Dimethylphthalate)

LC50 (inhalation, rat, 4h, aerosol): 17mg/l (MEKP-40% in Dimethylphthalate; nominal-concentration)

Sensitization: GPMT: Not sensitizing (MEKP-40% in Dimethylphthalate/ Diacetone alcohol).

AMES-Tests: Not mutagenic in Ames- test

## **12. Ecological information**

Avoid release to the environment. In case of spillage or leakage appropriate measures have to be taken immediately.

### **Methyl ethyl ketone peroxide(s) (MEKP-33% in Dimethylphthalate):**

Fish toxicity (P. reticulata): LC50 (96h): 44,2mg/l.

Activated sludge respiration inhibition test: EC50: 48mg/l.

Biodegradability (Closed Bottle Test, OECD 301D): Readily biodegradable.

## **13. Disposal considerations**

Eliminate in accordance with locally valid waste disposal regulations.

## **14. Transport information**

### **Transport by Road (ADG Code):**

UN-no.: 3105

Class: 5.2

Packing Group (PG): II

Classification Code: P1

ADR/ RID

Proper Shipping Name:

Organic Peroxide Type D, liquid, [contains Methyl ethyl ketone peroxide(s)]

**Hazchem Code: 2WE**

### **Sea Transport (IMDG Code):**

UN-no.: 3105

Class: 5.2

EmS: F-J S-R

Packing group (PG): II

Proper Shipping Name:

Organic Peroxide Type D, liquid, [contains: Methyl Ethyl Ketone Peroxide(s)]

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**Air transport (ICAO/IATA):**

UN-no.: 3105

Class: 5.2

Packaging group (PG): II

Proper Shipping Name:

Organic Peroxide Type D, liquid, [contains: Methyl Ethyl Ketone Peroxide(s)]

**15. Regulatory information**

**Symbol (s):**

O – Oxidizing    C - Corrosive

**R-phrase (s):**

R7                      May cause fire

R22                     Harmful if swallowed

R34                     Causes burns

**S-phrase (s):**

S3/7                    Keep container tightly closed in a cool place

S14                    Keep away from strong acids, bases, heavy metal salts and reducing agents

S26                    In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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 accelerators and promoters

**Listing according to AICS:**

All ingredients are listed : yes

**16. Other information**

Abbreviations: n.a = not applicable; n.d.a = no data available

MSDS 8, replaces Rev. 8 dated 16.8.2006

The above information is accurate to the best of our knowledge and they are not meant to guarantee specific properties of the product. The existing regulations are to be observed by our customers at their own responsibility.