

Material Safety Data Sheet



UNITED INITIATORS

driving your success

Product: Curox M-200

Print Date: 03.10.08

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

Commercial product name: Curox M 200

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

Emergency information 1800 023 488
(phone number):

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) **O, R7, C, R34; Xn, R22** < 35%
CAS-no.: 1338-23-4 EEC-no.: 215-661-2

Methyl ethyl ketone **F, R11, Xi, R36; R66; R67** < 5%
CAS-no.: 78-93-3 EEC-no.: 201-159-0

Hydrogen peroxide **C, R34** < 5%
CAS-no.: 7722-84-1 EEC-Nr.: 231-765-0

Dimethyl Phthalate **R20/22, R36/37** 30-60%
CAS-no.: 131-11-3

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 +30°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 ³
Methyl ethyl ketone	445	mg/m ³
Hydrogen peroxide	1.4	mg/m ³
Dimethylphthalate	5	mg/m ³

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

Form/ physical state:	liquid
Color:	colourless
Smell:	n.d.a
Melting point:	n.d.a
Boiling point:	n.a (decomposition)
Flash point:	approx. 68°C (ISO 3679/80, SETAFLASH)
Ignition temperature:	n.d.a
Explosion limits:	n.d.a
Vapour pressure:	50 kPa @ 55°C
Density:	approx. 1.15g/cm ³ @ 20°C
Solubility:	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 9, 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.