

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 05.01.2010

Revision Date : 04.01.2010

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Commercial Product Name: CUROX M-302

DE / EN

Version: 1.2

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product information

Commercial Product Name : **CUROX M-302**  
Company : **United Initiators GmbH & Co. KG**  
Dr. Gustav-Adolph-Str. 3  
82049 Pullach  
Germany  
E-mail address : contact@united-in.com  
Emergency telephone : +49 / 89 / 74422 - 0

In case of an emergency in the United States, contact:

**For chemical Emergency ONLY call CHEMTREC : 1-800-424-9300**

**For ALL other inquiries about this product call :**

**United Initiators Inc.**

**555 Garden Street, Elyria Ohio 44035 at 1 (440) 323-3112**

### Use

Type of use : Industrial use chemicals

## 2. HAZARDS IDENTIFICATION

### Risk advice to man and the environment



Symbol(s) : O Oxidising  
C Corrosive

R-phrases(s) : R 7 May cause fire.  
R34 Causes burns.  
R22 Harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## Hazardous components

Chemical Name	CAS-No.	EC-No. / Registration number	Classification	Concentration[%]
methylethylketoneperoxide	1338-23-4	215-661-2	O; R 7 Xn; R22 C; R34	25 - < 35
4-hydroxy-4methylpentan-2-one (diacetone alcohol)	123-42-2	204-626-7	Xi; R36	12,5 - < 15
methylethylketone	78-93-3	201-159-0	F; R11 Xi; R36 R66 R67	3 - < 5
hydrogen peroxide	7722-84-1	231-765-0	R 5 O; R 8 C; R35 Xn; R20/22	3 - < 5

## 4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.  
Never give anything by mouth to an unconscious person.  
Remove from exposure, lie down.  
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Inhalation : Remove to fresh air.  
Call a physician immediately.
- Skin contact : Wash off immediately with soap and plenty of water.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
If a person vomits when lying on his back, place him in the recovery position.  
Do NOT induce vomiting.  
If swallowed, seek medical advice immediately and show this container or label.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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- Extinguishing media which shall not be used for safety reasons : High volume water jet
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear respiratory protection.  
Wear personal protective equipment.
- Environmental precautions : Avoid subsoil penetration.  
Do not allow material to contaminate ground water system.  
Do not contaminate water.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Do not let product enter drains.
- Methods for cleaning up : Remove mechanically and with care (e.g. with clean polyethylene plastic shovel).  
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

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Additional advice : Never add other substances or waste material to product residue.  
Move product residue to a safe place and dispose of properly.

## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling : For personal protection see section 8.

### Storage

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep container tightly closed.  
No smoking.

Further information on storage conditions : Avoid impurities (e.g. rust, dust, ash), risk of decomposition.

Advice on common storage : Store apart from other dangerous and incompatible substances.

Storage temperature : < 30 °C

Remarks : Storing temperature for reasons of quality liquid up to -25 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Control parameters	Basis	Update
4-hydroxy-4methylpentan-2-one (diacetone alcohol)	123-42-2	96 mg/m <sup>3</sup> , 20 ppm	TRGS 900	01 2006
methylethylketone	78-93-3	600 mg/m <sup>3</sup> , 200 ppm	TRGS 900	

### Engineering measures

General advice : Provide adequate ventilation.

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## **Personal protective equipment**

- Respiratory protection : Short duration filter unit: Filter A
- Hand protection : Skin should be washed after contact.
- Glove thickness : 0,5 mm
- Break through time : >= 8 h
- Material : butyl-rubber
- Eye protection : Tightly fitting safety goggles  
Face protection
- Skin and body protection : Protective suit  
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.  
Keep away from food, drink and animal feedingstuffs.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form : liquid

Colour : colourless

### **Safety data**

pH : not applicable

Miscibility in water : immiscible

Boiling point/boiling range : not applicable, Decomposition

Flash point : 56 °C Method: ISO 3679, Seta-Flash

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Vapour pressure : no data available

Density : 1,02 g/cm<sup>3</sup> at 20 °C

Partition coefficient: n-octanol/water :  
no data available

Solubility in other solvents : Medium: Phthalates  
Mixable

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Viscosity, dynamic : 13 mPa.s at 20 °C

Refraction index : 1,431 at 20 °C

## **10. STABILITY AND REACTIVITY**

Conditions to avoid : Keep away from heat and sources of ignition.

Materials to avoid : Accelerators, strong acids and bases, heavy metal salts, reduction mediums  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.

Hazardous decomposition products : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

Thermal decomposition : ca.60 °C  
Method: SADT (UN test H.4)  
SADT possible at temperatures above approximately 60 °C.

Hazardous reactions : General Information:  
Vapours may form explosive mixture with air.  
Stability:  
Stable under recommended storage conditions.

## **11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50 rat  
Dose: 1.017 mg/kg  
Test substance: methylethylketoneperoxide (40% in dimethylphthalate)

Acute inhalation toxicity : LC50 rat  
Exposure time: 4 h  
Dose: 17 mg/l  
Test substance: methylethylketoneperoxide (40% in dimethylphthalate)  
Aerosol  
Nominal concentration

Acute dermal toxicity : LD50 rat  
Dose:  
1,8 - 3,6 ml/kg  
Test substance: methylethylketoneperoxide (60% in dimethylphthalate)

Sensitisation : Method: Maximisation Test  
Test substance: methylethylketoneperoxide (60% in dimethylphthalate/diacetone alcohol)  
Did not cause sensitization on laboratory animals.

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AMES-Test: : rat  
Result: Not mutagenic in Ames Test.

## **12. ECOLOGICAL INFORMATION**

### **Elimination information (persistence and degradability)**

Biodegradability : Result: Readily biodegradable.  
Test substance: methylethylketoneperoxide (MEKP)  
Method: Closed Bottle Test

### **Ecotoxicity effects**

Toxicity to fish : LC50  
Dose: 44,2 mg/l  
Exposure time: 96 h  
Test substance: methylethylketoneperoxide (33% in dimethylphthalate)

Toxicity to bacteria : EC50  
Dose: 48 mg/l  
Test substance: methylethylketoneperoxide (33% in dimethylphthalate)

Water contaminating class (Germany) : WGK 2 water endangering  
VwVwS (German water pollution authority), appendix 4

## **13. DISPOSAL CONSIDERATIONS**

Advice on disposal and packaging : Disposal:  
Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.

## **14. TRANSPORT INFORMATION**

### **Land transport**

**ADR**  
UN Number : 3105  
Description of the goods : ORGANIC PEROXIDE TYPE D, LIQUID  
(methylethylketoneperoxide)  
Class : 5.2  
Classification Code : P1

**RID**

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UN Number : 3105  
 Description of the goods : ORGANIC PEROXIDE TYPE D, LIQUID  
 (methylethylketoneperoxide)  
 Class : 5.2  
 Classification Code : P1  
 Hazard identification No : 539

### Air transport

#### **IATA**

UN Number : 3105  
 Proper technical name : Organic peroxide type D, liquid  
 (methylethylketoneperoxide)  
 Class : 5.2  
 ICAO-Labels : 5.2 (HEAT)

### Sea transport

#### **IMDG**

Substance No. : UN 3105  
 Proper technical name : ORGANIC PEROXIDE TYPE D, LIQUID  
 (methylethylketoneperoxide)  
 Class : 5.2  
 EmS Number 1 : F-J  
 EmS Number 2 : S-R  
 Marine pollutant : no

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

Hazardous components which must be listed on the label:

- 1338-23-4 methylethylketoneperoxide

Symbol(s) : O Oxidising  
 C Corrosive



R-phrase(s) : R 7 May cause fire.  
 R22 Harmful if swallowed.  
 R34 Causes burns.

S-phrase(s) : S 3/7 Keep container tightly closed in a cool place.  
 S14 Keep away from strong acids, bases, heavy  
 metal salts and other reducing substances.  
 S26 In case of contact with eyes, rinse immediately  
 with plenty of water and seek medical advice.



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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 activators and catalyst promoters.

## National legislation

### Other regulations

: BGV B4 organische Peroxide. (German regulatory requirements)  
 BG-Merkblatt M001 beachten (German regulatory requirements)  
 Produkt unterliegt nicht dem Sprengstoffgesetz (SprengG). (German regulatory requirements)  
 Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.  
 Take note of Dir 94/33/EC on the protection of young people at work.  
 Störfallverordnung Anhang I (German regulatory requirements)

Gefahrengruppe nach § 3 BGV B4: (German regulatory requirements)  
 Ib (German regulatory requirements)

## 16. OTHER INFORMATION

### **Full text of R-phrases referred to under sections 2 and 3**

R 5	Heating may cause an explosion.
R 7	May cause fire.
R 8	Contact with combustible material may cause fire.
R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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