

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 14.10.2008

Revision Date : 13.10.2008

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Commercial Product Name: Carbamide Peroxide (CP)

DE / EN

Version: 2.10

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

### Product information

Commercial Product Name : Carbamide Peroxide (CP)  
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) : Xi Irritant

R-phrase(s) : R41 Risk of serious damage to eyes.  
R37/38 Irritating to respiratory system and skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## Hazardous components

Chemical Name	CAS-No.	EC-No. / Registration number	Classification	Concentration[%]
hydrogen peroxide	7722-84-1	231-765-0	R 5 O; R 8 C; R35 Xn; R20/22	35 - < 40

## 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.
- 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.

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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.
- 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

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Remarks : Storing temperature for reasons of quality

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

General advice : Provide adequate ventilation.

### 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 : solid  
crystalline

Colour : white

### Safety data

pH : 3,0 - 5,2  
0,5 - 10% in water

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<u>Melting point/range</u>	: 75 - 85 °C Decomposes before melting.
<u>Boiling point/boiling range</u>	: not applicable, Decomposition
<u>Flash point</u>	: not applicable
<u>Lower explosion limit</u>	: not applicable
<u>Upper explosion limit</u>	: not applicable
<u>Vapour pressure</u>	: not applicable
<u>Density</u>	: 0,65 g/cm <sup>3</sup> at 20 °C
<u>Water solubility</u>	: 500 g/l at 20 °C 730 g/l at 40 °C 970 g/l at 60 °C
<u>Partition coefficient: n-octanol/water</u>	: not applicable
<u>Viscosity, dynamic</u>	: not applicable
<u>Refraction index</u>	: not applicable

## 10. STABILITY AND REACTIVITY

<u>Conditions to avoid</u>	: Keep away from heat and sources of ignition.
<u>Materials to avoid</u>	: Accelerators, strong acids and bases, heavy metal salts, reduction mediums Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
<u>Hazardous decomposition products</u>	: Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition
<u>Thermal decomposition</u>	: > 60 °C Method: SADT (UN test H.4) SADT possible at temperatures above approximately 60 °C.
<u>Hazardous reactions</u>	: General Information: Vapours may form explosive mixture with air. Stability: Stable under recommended storage conditions.

## 11. TOXICOLOGICAL INFORMATION

<u>Acute oral toxicity</u>	: LD50 rat Dose: > 2.000 mg/kg Test substance: carbamide peroxide
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<u>Acute inhalation toxicity</u>	:	LD50 rat Exposure time: 4 h Dose: 0,17 mg/l Test substance: hydrogen peroxide, 50 % maximum attainable concentration
<u>Acute dermal toxicity</u>	:	LD50 rabbit Dose: > 2.000 mg/kg Test substance: hydrogen peroxide, 70 %
<u>Skin irritation</u>	:	rabbit Result: irritating Test substance: hydrogen peroxide, 35 %
<u>Eye irritation</u>	:	rabbit Result: Risk of serious damage to eyes. Test substance: hydrogen peroxide, 35 %
<u>Sensitisation</u>	:	guinea pig Result: Product is not sensitizing. Test substance: hydrogen peroxide, 3 %

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

#### Ecotoxicity effects

<u>Toxicity to fish</u>	:	LC50 Dose: 16,4 mg/l Exposure time: 96 h Test substance: hydrogen peroxide, 100 %
<u>Toxicity to bacteria</u>	:	EC10 Dose: > 10.000 mg/l Exposure time: 16 h Test substance: urea
<u>Acute toxicity for aquatic plants</u>	:	EC50 Dose: 0,85 mg/l Exposure time: 72 h Test substance: hydrogen peroxide, 100 %
<u>Acute and prolonged toxicity for aquatic invertebrates</u>	:	EC50 Species: Daphnia Dose: 2,4 mg/l Exposure time: 48 h Dose: 2,4 mg/l Test substance: hydrogen peroxide, 100 %

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Water contaminating class : WGK 1 slightly water endangering  
(Germany) : VwVwS (German water pollution authority), appendix 3

## 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 : 1511  
Description of the goods : UREA HYDROGEN PEROXIDE  
Class : 5.1  
Packaging group : III  
Classification Code : OC2  
Hazard identification No : 58

**RID**  
UN Number : 1511  
Description of the goods : UREA HYDROGEN PEROXIDE  
Class : 5.1  
Packaging group : III  
Classification Code : OC2  
Hazard identification No : 58

### Air transport

**IATA**  
UN Number : 1511  
Proper technical name : Urea hydrogen peroxide  
Class : 5.1  
Packaging group : III

### Sea transport

**IMDG**  
Substance No. : UN 1511  
Proper technical name : UREA HYDROGEN PEROXIDE  
Class : 5.1  
Packaging group : III  
EmS Number : F-A S-Q  
Marine pollutant : no

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## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

Hazardous components which must be listed on the label:

- 7722-84-1 hydrogen peroxide

Symbol(s) : Xi Irritant



R-phrase(s) : R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.

S-phrase(s) : S22 Do not breathe dust.  
S26 In case of contact with eyes, rinse immediately  
with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection.

### National legislation

Other regulations : TRGS 515 (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.  
carbamid-peroxide; CAS 124-43-6; EINECS 204-701-4

## 16. OTHER INFORMATION

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

R 5 Heating may cause an explosion.  
R 8 Contact with combustible material may cause fire.  
R20/22 Harmful by inhalation and if swallowed.  
R35 Causes severe burns.

### 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





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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.

prepared by : TechniData BCS GmbH  
Birlenbacher Str. 19  
57078 Siegen  
Germany  
Telephone: +49-(0)271-88072-0  
E-mail address: info@technidata-bcs.de



(508) 270-1800 • (800) 238-0001

**American  
International  
Chemical, Inc.**  
135 Newbury Street  
Framingham, MA 01701