

Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 10.10.2013

Version number 2

Revision: 10.10.2013

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: UREA-HYDROGEN PEROXIDE in tablet form**Article number:** 7641**CAS Number:**

124-43-6

EC number:

204-701-4

Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carl Roth GmbH + Co.KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

e-mail: sicherheit@carlroth.de

Further information obtainable from: Department Health, Safety and Environment

1.4 Emergency telephone number:

Poison Centre Munich

Telefon +49/(0)89 19240

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Ox. Sol. 2 H272 May intensify fire; oxidiser.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

O; Oxidising

R8: Contact with combustible material may cause fire.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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Hazard pictograms

GHS03



GHS05



GHS07

Signal word Danger**Hazard statements**

H272 May intensify fire; oxidiser.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional information:

-

2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterization: Substances**CAS No. Description**

124-43-6 hydrogen peroxide--urea

Identification number(s)

EC number: 204-701-4

Formula: C H6 N2 O3

Molar mass [g/mol]: 94,07

4 First aid measures

**4.1 Description of first aid measures****General information:**

Remove any clothing soiled by the product.

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After inhalation:

After inhalation of dusts:

Supply fresh air or oxygen; call for doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If there is any trouble seek medical help.

After eye contact:

Rinse opened eye for 10 minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.

Risk of perforation!

Call for a doctor immediately and show the container or label.

4.2 Most important symptoms and effects, both acute and delayed

Irritation and corrosion

Coughing

Breathing difficulty

Eye damage

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:**

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Has a fire-promoting effect due to release of oxygen.

During heating or in case of fire poisonous gases or steams are produced.

In case of fire, the following can be released:Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid formation of dust.

Avoid contact with the eyes and skin.

Do not breathe dust.

6.2 Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

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6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep away from combustible material.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

Further information about storage conditions:

Store in dry conditions.

Protect from exposure to the light.

Keep container tightly sealed.

Recommended storage temperature: 15 - 25 °C**7.3 Specific end use(s)**

No further relevant information available.

8 Exposure controls/personal protection**Additional information about design of technical facilities:**

No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:**

The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Do not eat, drink or smoke while working.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not breathe dust.

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Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Required when dusts are generated.

Required when dusts are generated: filter ABEK.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile, thickness: ≥ 0.11 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

Value for the permeation: Level ≥ 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, thickness: ≥ 0.11 mm

Value for the permeation: Level ≥ 6

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form: Tablets

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Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
pH-value (10 g/l) at 20 °C:	4-5.2
Change in condition	
Melting point/Melting range:	Not applicable (decomposition). No information available.
Boiling point/Boiling range:	Not applicable (decomposition)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Contact with combustible material may cause fire.
Ignition temperature:	No information available
Decomposition temperature:	> 60 °C
Self-igniting:	No information available
Danger of explosion:	No information available
Explosion limits:	
Lower:	No information available.
Upper:	No information available.
Oxidizing properties:	May intensify fire; oxidiser.
Vapour pressure:	Not applicable.
Density:	Not determined.
Bulk density at 20 °C:	650 kg/m ³
Relative density	No Information available.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water at 20 °C:	500 g/l
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	No information available.
9.2 Other information	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Strong reaction possible with:
organic combustible substances

Ether

Acetone

Alkalines

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Metals

metals in powder form

metallic oxides

10.4 Conditions to avoid

Strong Heating. (decomposition)

Avoid contact with moisture.

10.5 Incompatible materials:

No information available.

Organic combustible substances, metals, metallic oxides, bases.

10.6 Hazardous decomposition products:

In case of fire: see item 5.

Additional information:

Light-sensitive.

Sensitive to moisture.

11 Toxicological information**11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

Quantitative data on the toxicity of this product are not available.

Specific symptoms in biological assay:

No information available.

Primary irritant effect:**on the skin:**

Irritant to skin and mucous membranes.

on the eye:

Causes serious eye damage.

Strong irritant with the danger of severe eye injury.

Risk of corneal opacity.

after inhalation:

After inhalation of dusts/aerosols:

Irritations in the respiratory tract, coughing, dyspnoea.

Pulmonary oedema latency period until onset of action.

Sensitization:

No sensitizing effects known.

CMR effects:**Germ cell mutagenicity:**

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards.

Aspiration hazard:

No aspiration toxicity classification.

Specific target organ toxicity - single exposure May cause respiratory irritation.**Specific target organ toxicity - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Additional toxicological information:

After swallowing large quantities:

burns in the mouth, throat, oesophagus and gastrointestinal tract, risk of perforation in the oesophagus and gastrointestinal tract.

Further information:

The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

12.1 Toxicity**Aquatic toxicity:****Fish toxicity:**

LC50 | 35 mg/l/48 h (Leuciscus idus)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:**Remark:**

Do not allow to enter waters, waste water, or soil!

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects**

No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation**

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:**Recommendation:**

Disposal according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1511

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14.2 UN proper shipping name**ADR
IMDG, IATA**1511 UREA HYDROGEN PEROXIDE
UREA HYDROGEN PEROXIDE**14.3 Transport hazard class(es)****ADR****Class
Label**5.1 Oxidising substances.
5.1+8**IMDG, IATA****Class
Label**5.1 Oxidising substances.
5.1 + 8**14.4 Packing group****ADR, IMDG, IATA**

III

14.5 Environmental hazards:**Marine pollutant:**

No

14.6 Special precautions for user**Danger code (Kemler):**

Warning: Oxidising substances.

EMS Number:

58

F-A,S-Q

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

5 kg

Transport category

3

Tunnel restriction code

E

UN "Model Regulation":

UN1511, UREA HYDROGEN PEROXIDE, 5.1 (8), III

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations:****Information about limitation of use:** Employment restrictions concerning juveniles must be observed.**Breakdown regulations:**

-

Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Department: Health, Safety and Environment**Contact:** Herr Dr. Hagel**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50*: Lethal Dose, 50 percent (Not relevant for classification)

LD50*: Lethal Concentration, 50 percent (Not relevant for classification)

*** Data compared to the previous version altered.**