

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

## · Product details

- Trade name:
- Application of the substance / the preparation

**PERGASLOW CH-100**

Inhibitor  
For industrial use

## · Manufacturer/Supplier:

PERGAN GmbH  
Hilfsstoffe für industrielle Prozesse  
Schlavenhorst 71  
D-46395 Bocholt  
Tel: +49 2871 9902-0  
Fax: +49 2871 9902-50

## · Further information obtainable from:

Environment protection / Security of labour  
Competent person:  
\* Kathrin Bohland (Sales) e-mail: k.bohland@pergan.com  
\* Christoph Wilting (Environment protection / Security of labour) e-mail: c.wilting@pergan.com

## · Information in case of emergency:

- Tel: +49 2871 9902-0

**2 Hazards identification**

## · Hazard description:



T Toxic  
N Dangerous for the environment

## · Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 23/25 Toxic by inhalation and if swallowed.  
R 36/37/38 Irritating to eyes, respiratory system and skin.  
R 50 Very toxic to aquatic organisms.

## · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**3 Composition/information on ingredients**

## · Chemical characterization

## · Dangerous components:

CAS: 106-51-4 EINECS: 203-405-2 Index number: 606-013-00-3	p-benzoquinone	T, Xi, N; R 23/25-36/37/38-50	>98%
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## · Additional information:

For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

## · General information:

Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Take care of personal protection for the first aider.

## · After inhalation:

Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.

## · After skin contact:

Take affected persons into fresh air and keep quiet.  
Immediately wash with water and soap and rinse thoroughly.  
Immediately remove contaminated clothing.

## · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

## · After swallowing:

Do not induce vomiting; call for medical help immediately.

**5 Fire-fighting measures**

## · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

## · Special hazards caused by the substance, its products of combustion or resulting gases:

Under certain fire conditions, traces of other toxic gases cannot be excluded.

## · Protective equipment:


Mouth respiratory protective device.  
Do not inhale explosion gases or combustion gases.

Trade name: **PERGASLOW CH-100**

(Contd. of page 1)

· **Additional information** Self-protection first!

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system.  
 Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.
- **Additional information:** In case of large spillage the environmental authority should be informed.

## 7 Handling and storage

- **Handling:** Pay attention to the special requirements of your local authorities for handling with dangerous goods.
- **Information for safe handling:** Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of dust. Provide suction extractors if dust is formed. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Use only in well ventilated areas. Before break and at the end of work hands should be thoroughly washed. Avoid contact with skin and eyes. While using do not eat, drink or smoke.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:** Pay attention to the special requirements of your local authorities for storing dangerous goods.
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:** Store away from foodstuffs, drinks and feeding stuffs.
- **Further information about storage conditions:** Keep container tightly sealed. Store in dry conditions. Store under lock and key and out of the reach of children.
- **Recommended storage temperature (To maintain quality):** 0 ... +30°C
- **Storage class:** 6.1 A "Combustible toxic substances" (VCI Guideline)




## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.

(Contd. on page 3)

Trade name: **PERGASLOW CH-100**

(Contd. of page 2)

- **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.  
Use suitable respiratory protective device in case of insufficient ventilation.  
 Filter P3
- **Protection of hands:** Only use chemical-protective gloves with CE-labelling of category III.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
Protective gloves
- **Material of gloves** 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.  
Butyl rubber, BR  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Neoprene
- **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  Tightly sealed goggles
- **Body protection:** Protective work clothing

**9 Physical and chemical properties**

· <b>General Information</b>	
· <b>Form:</b>	Solid
· <b>Colour:</b>	Yellow-brown
· <b>Odour:</b>	Pungent
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	116°C
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	77°C (closed cup)
· <b>Ignition temperature:</b>	560°C (ASTM D 2155)
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density at 20°C:</b>	1.32 g/cm <sup>3</sup>
· <b>Bulk density at 20°C:</b>	530 kg/m <sup>3</sup>
· <b>Solubility in / Miscibility with water at 25°C:</b>	15 g/l
· <b>Segregation coefficient (n-octanol/water):</b> not determined	

**10 Stability and reactivity**

- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No hazardous decomposition products if used and stored according to specifications.
- **Additional information:** Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

**11 Toxicological information**

- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**106-51-4 p-benzoquinone**

Oral LD50 100 mg/kg (rattus)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 4)

Trade name: **PERGASLOW CH-100**

(Contd. of page 3)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Toxic  
Irritant

**12 Ecological information**

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

**106-51-4 p-benzoquinone**

LC50 / 96h 0.4 mg/l (daphnia)

· **Remark:** Very toxic for fish

· **Additional ecological information:**

**106-51-4 p-benzoquinone**

BSB 5 730 mg O<sub>2</sub> /g (-)

CSB 1560 mg O<sub>2</sub> /g (-)

· **General notes:**

Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.

**13 Disposal considerations**

· **Product:**

· **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.

· **Uncleaned packaging:**

· **Recommendation:**

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

**14 Transport information**

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 6.1 (T2) Toxic substances.  
· **Danger code (Kemler):** 60  
· **UN-Number:** 2587  
· **Packaging group:** II  
· **Hazard label:** 6.1  
· **Description of goods:** 2587 BENZOQUINONE  
· **RID / GGVSE:** like ADR

· **Maritime transport IMDG:**



· **IMDG Class:** 6.1  
· **UN Number:** 2587  
· **Label:** 6.1  
· **Packaging group:** II  
· **EMS Number:** F-A,S-A  
· **Marine pollutant:** No  
· **Proper shipping name:** BENZOQUINONE

(Contd. on page 5)

Trade name: **PERGASLOW CH-100**

(Contd. of page 4)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 6.1  
· UN/ID Number: 2587  
· Label: 6.1  
· Packaging group: II  
· Proper shipping name: BENZOQUINONE

**15 Regulatory information**

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



T Toxic  
N Dangerous for the environment

· Hazard-determining components of labelling:

p-benzoquinone

· Risk phrases:

23/25 Toxic by inhalation and if swallowed.  
36/37/38 Irritating to eyes, respiratory system and skin.  
50 Very toxic to aquatic organisms.

· Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of water.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
60 This material and its container must be disposed of as hazardous waste.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Please note: Take care of the respective local regulations.

**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.

· Relevant R-phrases

23/25 Toxic by inhalation and if swallowed.  
36/37/38 Irritating to eyes, respiratory system and skin.  
50 Very toxic to aquatic organisms.

· Department issuing MSDS:

Environment protection / Security of labour

· Contact:

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