

Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

PERGASLOW HD-100 · Trade name:

· CAS Number: 123-31-9 · EC number: 204-617-8 · Index number: 604-005-00-4 · Registration number: 01-2119524016-51

· 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 Inhibitor

For industrial use

· 1.3 Details of the supplier of the safety data sheet

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

Qualified person: E-mail: msds@pergan.com

· 1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

#### **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed. Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Muta. 2 H341 Suspected of causing genetic defects. Carc. 2 H351 Suspected of causing cancer.

Aquatic Acute 1 H400 Very toxic to aquatic life.

2.2 Label elements

Labelling according to

The substance is classified and labelled according to the GB CLP regulation. Regulation (EC) No 1272/2008

· Hazard pictograms





GHS05 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

1,4-dihydroxybenzene · Hazard statements H302 Harmful if swallowed.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

· Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing Immediately call a POISON CENTER/doctor.

P310 P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.

(Contd. on page 2)



Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

· vPvB: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.

(Contd. of page 1)

# **SECTION 3: Composition/information on ingredients**

3.1 Substances

· After inhalation:

· CAS No. Description 123-31-9 1,4-dihydroxybenzene

Identification number(s)

• EC number: 204-617-8 • Index number: 604-005-00-4

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48

hours after the accident.

Take care of personal protection for the first aider.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

• After skin contact: 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. Then consult a doctor.

• After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

the substance or mixture

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

5.3 Advice for firefighters

• **Protective equipment:** Do not inhale explosion gases or combustion gases.

· Additional information Self-protection first!

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

X

Do not allow to enter sewers/ surface or ground water.

 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government

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.

In case of large spillage the environmental authority should be informed.

#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

**handling** Prevent formation of dust.

(Contd. on page 3)



(Contd. of page 2)

Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

Provide suction extractors if dust is formed.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Before break and at the end of work hands should be thoroughly washed.

While using do not eat, drink or smoke.

· Information about fire - and

explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities Storage: Pay attention to the special requirements of your local autorithies 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:

· Recommended storage temperature (To maintain

quality): 0 .... +30 °C

· 7.3 Specific end use(s) No further relevant information available

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:
123-31-9 1,4-dihydroxybenzene
WEL (Great Britain) Long-term value: 0.5 mg/m³
· DNELs
123-31-9 1,4-dihydroxybenzene

DNEL Longterm System 3.33 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 2.1 mg/m3 (Worker)

#### · PNECs

# 123-31-9 1,4-dihydroxybenzene

PNEC Marinewater sed 0.00049 mg/kg sed dw (-) PNFC Freshwater 0.00057 mg/l (AF 10) PNEC Freshwater sed 0.0049 mg/kg sed dw (-) PNFC Soil 0.00064 mg/kg soil dw (-) PNEC STP 0.71 mg/l (AF 100) **PNEC Marinewater** 0.000057 mg/l (AF 100)

Additional information: The lists valid during the making were used as basis.

 8.2 Exposure controls Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as 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. Avoid close or long term contact with the skin. Avoid contact with the eyes.

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.

· Respiratory protection: Not necessary if room is well-ventilated.

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.

Filter P2

· Hand protection 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

The selection of the suitable gloves does not only depend on the material, but also on further marks of Material of gloves

quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

(Contd. on page 4)



Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

# Trade name: PERGASLOW HD-100

(Contd. of page 3)

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/face protection

Tightly sealed goggles

· Body protection:

Protective work clothing

#### **SECTION 9: Physical and chemical properties**

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9.1	miormation	on pasic	Diivsicai	and cn	emicai	properties

**General Information** 

· Colour:

· Odour:

Odour threshold:

· Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability

Lower and upper explosion limit

· Lower: · Upper:

· Flash point:

· Decomposition temperature:

· pH at 20 °C

· Viscosity:

Kinematic viscosity

· Dynamic: Solubility

water:

Partition coefficient n-octanol/water (log value)

· Vapour pressure:

Density and/or relative density

· Density at 20 °C:

Relative density

Vapour density

Not applicable. Not applicable.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Product is not flammable.

Undetermined.

287 °C Not applicable.

165 °C

3.8

Characteristic

Undetermined.

not determined

Not applicable.

1.358 g/cm<sup>3</sup>

Not determined. Not applicable.

# · 9.2 Other information

Appearance: · Form:

· Important information on protection of health and environment,

and on safety.

Ignition temperature:

**Explosive properties:** 

Change in condition

Solid

Void

Void

Void

Void

Void

Void

Void

Void

Void

Not determined.

Product does not present an explosion hazard.

No further relevant information available.

· Evaporation rate

Not applicable.

· Information with regard to physical hazard classes

· Explosives · Flammable gases

· Aerosols

· Oxidising gases · Gases under pressure Flammable liquids

· Flammable solids · Self-reactive substances and mixtures Pyrophoric liquids

· Pyrophoric solids Self-heating substances and mixtures

· Substances and mixtures, which emit flammable gases in contact with water

Oxidising liquids · Oxidising solids

Void Void Void

Void Void Void

· Organic peroxides

(Contd. on page 5)



(Contd. of page 4)

Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

 Corrosive to metals Void Desensitised explosives Void

### **SECTION 10: Stability and reactivity**

No further relevant information available. · 10.1 Reactivity

· 10.3 Possibility of hazardous

reactions

No dangerous reactions known.

· 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition

products: Additional information: No hazardous decomposition products if used and stored according to specifications.

Emergency procedures will vary depending on conditions. The customer should have an emergency

response plane in place.

#### **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

## 123-31-9 1,4-dihydroxybenzene

Oral LD50 302 mg/kg (rattus) LDLo 29 mg/kg (homo)

Skin corrosion/irritation Based on available data, the classification criteria are not met. Causes serious eye damage.

· Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

May cause an allergic skin reaction. Suspected of causing genetic defects.

 Carcinogenicity Suspected of causing cancer.

Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. · STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

123-31-9 1,4-dihydroxybenzene

LC50 / 96h | 0.044 mg/l (pimephales promelas)

EC50 / 48h 0.29 mg/l (daphnia magna)

IC50 / 72h | 0.335 mg/l (selenastrum capricornutum)

12.2 Persistence and degradability

· Degree of elimination:

· Classification:

123-31-9 1,4-dihydroxybenzene

Degradation (Readily biodegradable) (OECD 301 C)

12.3 Bioaccumulative potential

Partition coefficient: nOctanol/water: [Log Kow]

0,59 (20°C)

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII. · vPvB: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.

· 12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

· Remark: Very toxic for fish

(Contd. on page 6)



Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

(Contd. of page 5)

· Additional ecological information:

General notes: Very toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

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

· 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.

# **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3077
· 14.2 UN proper shipping name	
ADR	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (HYDROQUINONE)
· IMDG	ENVIRÒNMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (HYDROQUINONE), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (HYDROQUINONE)

· 14.3 Transport hazard class(es)

· ADR



· Class 9 (M7) Miscellaneous dangerous substances and articles. · Label

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles.

· Label

· 14.4 Packing group Ш · ADR, IMDG, IATA

· 14.5 Environmental hazards: Product contains environmentally hazardous substances:

**HYDROQUINONE** · Marine pollutant:

Yes

Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree)

· 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code): 90 · EMS Number: F-A,S-F · Stowage Category

· Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

(Contd. on page 7)



Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

(Contd. of page 6)

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Transport category · Tunnel restriction code Е

· RID / GGVSEB: like ADR

· Limited quantities (LQ) 5 kg · Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act
- · Regulated explosives precursors

Substance is not listed.

· Regulated poisons

Substance is not listed.

Reportable explosives precursors

Substance is not listed.

· Reportable poisons

Substance is not listed.

- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier

requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier

requirements 200 t

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex

Substance is not listed.

· Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Please note: Take care of the respective local regulations.

# **SECTION 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 SDS: Environment protection / Security of labour

Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

· 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 Organisation

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)



Printing date 04.01.2024 Version: 8 Revision: 20.12.2022

Trade name: PERGASLOW HD-100

(Contd. of page 7)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

·\* Data compared to the previous version altered.

GB