

Printing date 31.03.2023 Version: 10 Revision: 20.12.2022

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

· 1.1 Product identifier

PERGASLOW BK-100 · Trade name:

· CAS Number: 98-29-3 · EC number: 202-653-9 Registration number: 01-2119548368-28

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

Competent person:

Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com

* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

· 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. Acute Tox. 4 H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage. Skin Corr. 1B

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 Hazard pictograms

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





· Signal word Danger

Hazard-determining

components of labelling: 4-tert-butylpyrocatechol

Hazard statements H302+H312 Harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage. H314

H317 May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects. H410

· Precautionary statements P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling

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

P273 Avoid release to the environment.

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

protection

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

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

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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 REACH, Annex XIII.

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

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description 98-29-3 4-tert-butylpyrocatechol

· Identification number(s)

· EC number: 202-653-9

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

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.

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

Take affected persons into fresh air and keep quiet.

· 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.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate

medical attention and special

treatment needed No further relevant information available.

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 5.3 Advice for firefighters Under certain fire conditions, traces of other toxic gases cannot be excluded.

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.



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

· 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

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.

· 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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Thorough dedusting.

Prevent formation of dust.

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.

Avoid contact with skin and eyes. 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:

Requirements to be met by

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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: Further information about

storage conditions:

Keep container tightly sealed.

Store under lock and key and out of the reach of children.

Store away from foodstuffs, drinks and feeding stuffs.

Storage in a collecting room is required.

Recommended storage temperature (To maintain

quality):

max.: +30°C

Storage class:

88 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: Not required.

·DNELs

98-29-3 4-tert-butylpyrocatechol

Inhalative | DNEL Longterm System | 1,6 mg/m3 (Worker)

·PNECs

98-29-3 4-tert-butylpyrocatechol

PNEC Marinewater sed 0,00069 mg/kg sed dw (-) PNFC Freshwater 0,0012 mg/l (AF 100) 0,0069 mg/kg sed dw (-) PNFC Freshwater sed PNEC STP 0,16 mg/I (AF 100) **PNEC Marinewater** 0,00012 mg/l (AF 1.000)

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

8.2 Exposure controls

Appropriate engineering

controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

General protective and

The usual precautionary measures are to be adhered to when handling chemicals. hygienic measures:

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 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.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer · Respiratory protection:

exposure use self-contained respiratory protective device.

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



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· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

Protective gloves

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

· 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/face protection

Tightly sealed goggles

· Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical 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

· Viscosity:

Kinematic viscosity

· Dynamic: · Solubility

water at 20 °C:

· Partition coefficient n-octanol/water (log value)

· Vapour pressure at 25 °C:

Density and/or relative density

· Density:

· Relative density Bulk density at 20 °C:

Vapour density

· Particle characteristics

Yellow tint Phenol-like

Not determined. 55-58 °C

290 °C

Product is not flammable.

Not determined.

Not determined

158 °C Not determined.

Not applicable.

Not applicable.

Not applicable.

4,2 g/l

not determined

0,0003 hPa

Not determined.

Not determined.

410 kg/m³

Not applicable.

See item 3.

· 9.2 Other information

· Appearance:

· Form:

Flakes

· Important information on protection of health and environment,

and on safety.

Auto-ignition temperature:

Explosive properties:

Change in condition · Evaporation rate

Not determined

Product does not present an explosion hazard.

No further relevant information available.

Not applicable.

· Information with regard to physical hazard classes

· Explosives

Void Flammable gases Void

· Aerosols Void Void · Oxidising gases · Gases under pressure Void

Flammable liquids

Void

· Flammable solids Void

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· Self-reactive substances and mixtures

Void

Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in

contact with water

Void · Oxidising liquids Void · Oxidising solids Void Organic peroxides Void · 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:

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.

SECTION 11: Toxicological information

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

· Acute toxicity Harmful if swallowed or in contact with skin.

· LD/LC50 values relevant for classification:

98-29-3 4-tert-butylpyrocatechol

LD50 815 mg/kg (rattus) Dermal LD50 1.331 mg/kg (rattus)

Skin corrosion/irritation Causes severe skin burns and eye damage. Causes serious eye damage.

Serious eye damage/irritation

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. STOT-single exposure · 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

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

98-29-3 4-tert-butylpyrocatechol

LC50 / 96h 0,12 mg/l (brachydanio rerio) EC50 / 48h 0,48 mg/l (daphnia magna)

12.2 Persistence and degradability

· Degree of elimination:

· Classification:

98-29-3 4-tert-butylpyrocatechol

Degradation (Evidence for inherent biodegradability.)

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· 12.3 Bioaccumulative potential

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· Partition coefficient: nOctanol/water: [Log Kow]

1,98 (25°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 REACH, Annex XIII.
 vPvB: This substance does not meet the PBT/vPvB criteria of 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: Toxic for fish

· Additional ecological information:

• General notes: Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

· Recommended cleansing

agents:

Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN3261

· 14.2 UN proper shipping name

· ADR

UN3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-BUTYLPYROCATECHOL), ENVIRONMENTALLY HAZARDOUS CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-BUTYLPYROCATECHOL), MARINE POLLUTANT

· IATA

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-BUTYLPYROCATECHOL)

· 14.3 Transport hazard class(es)

· ADR

· IMDG





· Class 8 (C4) Corrosive substances. · Label 8

·IMDG





· Class 8 Corrosive substances. · Label 8

· IATA



· Class 8 Corrosive substances.

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· Label	8
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: 4-tert-BUTYLPYROCATECHOL
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Segregation groups	(SGG1) Acids
· Stowage Category	В
· 14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· Transport category	2
· Tunnel restriction code	E
· RID / GGVSEB:	like ADR
·IMDG	
· 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
- · Directive 2012/18/EU
- · Named dangerous substances
- ANNEX I Substance is not listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier 200 t
- requirements
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex
- None of the ingredients is listed.
- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

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.

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Environment protection / Security of labour Department issuing SDS:

· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the · Abbreviations and acronyms:

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

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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 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
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

·* Data compared to the previous version altered.

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