

Printing date 04.01.2024 Version: 8 (replaces version 7) Revision: 20.12.2022

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

· 1.1 Product identifier

• Trade name: PERGASLOW PK-100

• CAS Number: 128-37-0 • EC number: 204-881-4

• Registration number: 01-2119555270-46, 01-2119565113-46

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

 \cdot 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

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008

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

· Hazard pictograms

GHS09

· Signal word Warning

· Hazard-determining

components of labelling: Butylated hydroxytoluene

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

• **Precautionary statements** P273 Avoid release to the environment. P391 Collect spillage.

2.3 Other hazards

· 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.

· Determination of endocrine-disrupting properties

List II

SECTION 3: Composition/information on ingredients

3.1 Substances

· CAS No. Description 128-37-0 Butylated hydroxytoluene

· Identification number(s)

EC number: 204-881-4

· EC number:	204-881-4	
· Dangerous components:		
CAS: 128-37-0 EINECS: 204-881-4 Reg-No.: 01-2119555270-46 01-2119565113-46		90-100%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg-No.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: $C \ge 10$ % STOT SE 2; H371: 3 % ≤ C < 10 %	0,1-1%

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

· After inhalation: Take affected persons into fresh air and keep quiet.

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

· After skin contact: Clean with water and soap. If possible, also wash with polyethylene glycol 400.

If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

 4.2 Most important symptoms and effects, both acute and

delayed 4.3 Indication of any immediate No further relevant information available.

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.

Water haze

Fire-extinguishing powder

Foam

· For safety reasons unsuitable

extinguishing agents:

Carbon dioxide Water with full jet

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!

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

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

· 6.4 Reference to other sections

No dangerous substances are released. See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling

Thorough dedusting. Prevent formation of dust.

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

· Information about fire - and explosion protection:

Product is not explosive. However, formation of explosive air/dust mixtures are possible.

Flammable gas-air mixtures may form in empty receptacles.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

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Prevent any seepage into the ground. Protect against electrostatic charges.

Storage in a collecting room is required.

Information about storage in one common storage facility:

Further information about storage conditions:
Recommended storage temperature (To maintain

0 +30 °C

temperature (To maintain quality):

Storage class: 1

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

or control parame	o. 1 Control parameters	
· Ingredients with lin	Ingredients with limit values that require monitoring at the workplace:	
128-37-0 Butylated	128-37-0 Butylated hydroxytoluene	
WEL (Great Britain) Long-term value: 10 mg/m³		
67-56-1 methanol		
IOELV (EU)	Long-term value: 260 mg/m³, 200 ppm Skin	
	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk	

· DNELs

128-37-0 Butylated hydroxytoluene

Dermal	DNEL Longterm System	0,5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	1,76 mg/m3 (Worker)

67-56-1 methanol

Dermal	DNEL Longterm System	20 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	130 mg/m3 (Worker)

· PNECs

128-37-0 Butylated hydroxytoluene

PNEC Marinewater sed	0,046 mg/kg sed dw (-)
PNEC Freshwater	0,000199 mg/l (AF 1.000)
PNEC Seawater	0,00002 mg/l (AF 10.000)
PNEC Freshwater sed	0,458 mg/kg sed dw (-)
PNEC Soil	0,054 mg/kg soil dw (-)
PNEC STP	0,017 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.

 \cdot 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.

Avoid contact with the eyes and skin.

• **Respiratory protection:** Suitable respiratory protective device recommended.



Filter P1

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

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

Material of gloves

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

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.

Synthetic rubber PVC

· 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

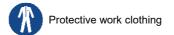


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· Body protection:



SECTION 9: 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:

Density and/or relative density

· Density at 20 °C: · Relative density · Bulk density at 20 °C: · Vapour density

Particle characteristics

Not determined. Characteristic

Not determined.

69,8 °C 265 °C

Not applicable.

Product is not flammable.

Not determined.

Not determined.

127 °C >265 °C

Not applicable.

Not applicable. Not applicable.

0.00076 a/l

5,1 log POW Not applicable.

1,03 g/cm3 Not determined. 650 kg/m³ Not applicable.

See section 3

· 9.2 Other information

· Appearance:

Form:

Solid

· Important information on protection of health and environment,

and on safety.

Ignition temperature:

Explosive properties: · Change in condition

Corrosive to metals

Not determined.

Product is not explosive. However, formation of explosive air/dust

mixtures are possible.

· 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

Organic peroxides

Void Void Void Void Void Void Void Void Void Void

Void

Void

Void

Void

Void

Void

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· Desensitised explosives

Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.3 Possibility of hazardous

reactions No dangerous reactions known. · 10.4 Conditions to avoid Prevent formation of dust.

· 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.

SECTION 11: Toxicological information

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

Based on available data, the classification criteria are not met. · Acute toxicity

· LD/LC50 values relevant for classification:

128-37-0 Butylated hydroxytoluene

LD50 >2.000 mg/kg (rattus) Dermal LD50 >2.000 mg/kg (cuniculosus)

67-56-1 methanol

LD50 1.187 mg/kg (rattus)

Skin corrosion/irritation Low irritant effect Low irritant effect · Serious eye damage/irritation

· Respiratory or skin

sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · 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. Based on available data, the classification criteria are not met. Aspiration hazard

· 11.2 Information on other hazards

Endocrine disrupting properties

List II

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:	· A	quatic	toxicity:	
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128-37-0 Butylated hydroxytoluene

LC0 /96h >0,57 mg/l (piscis)

EC50 / 48h 0,61 mg/l (daphnia magna)

IC50 / 72h >0,4 mg/l (alga)

67-56-1 methanol

EC50 / 72h | 22.000 mg/l (alga)

- 12.2 Persistence and degradability
- · Degree of elimination:

· Classification:

128-37-0 Butylated hydroxytoluene

Degradation (Not readily biodegradable)

67-56-1 methanol

Degradation (Readily biodegradable)

12.3 Bioaccumulative potential

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

128-37-0 Butylated hydroxytoluene

67-56-1 methanol -0,77 (20°C) (Contd. on page 6)



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· Bioconcentration factor (BCF)

128-37-0 Butylated hydroxytoluene

BCF 1.277

67-56-1 methanol

BCF <10

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

· 12.6 Endocrine disrupting

properties

For information on endocrine disrupting properties see section 11.

 12.7 Other adverse effects No further relevant information available.

· Additional ecological information:

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

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

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-· Waste disposal key:

number.

· Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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. (Butylated hydroxytoluene)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Butylated hydroxytoluene), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Butylated hydroxytoluene)

· 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. 9

· Label

· 14.4 Packing group · ADR, IMDG, IATA Ш

· 14.5 Environmental hazards: Product contains environmentally hazardous substances: Butylated

hydroxytoluene · 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. Α

Stowage Category

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

Ε

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

· Transport/Additional information:

· 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

· 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

requirements 200 t

REGULATION (EC) No

1907/2006 ANNEX XVII Conditions of restriction: 69

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.

 Department issuing SDS: Environment protection / Security of labour

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

· Version number of previous

version:

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

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

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EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified 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
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

·* Data compared to the previous version altered.

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