

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

PERGASLOW PK-100 · Trade name:

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

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

· 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

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

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

LO Humber.	204-001-4	
· Dangerous components:		
CAS: 128-37-0	Butylated hydroxytoluene	90-100%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Reg-No.: 01-2119555270-46		
01-2119565113-46		
CAS: 67-56-1	methanol	0,1-1%
EINECS: 200-659-6	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	
Index number: 603-001-00-X	Specific concentration limits: STOT SE 1; H370: C ≥ 10 %	
Reg-No.: 01-2119433307-44	STOT SE 2; H371: 3 % ≤ C < 10 %	
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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.

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· Information about storage in one common storage facility:

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

Storage in a collecting room is required.

quality):

0 .... +30 °C

Storage class:

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

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

#### · 8.1 Control parameters

o.i Control parameters				
· Ingredients with limit values that require monitoring at the workplace:				
128-37-0 Butylated hydroxytoluene				
OEL (Irela	nd)	Long-term value: 2 mg/m³		
WEL (Gre	at Britain)	t Britain) Long-term value: 10 mg/m³		
67-56-1 m	67-56-1 methanol			
OEL (Irela		Long-term value: 260 mg/m³, 200 ppm Sk, IOELV		
IOELV (El	LV (EU) Long-term value: 260 mg/m³, 200 ppm Skin			
WEL (Great Britain) Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk				
·DNELs				
128-37-0 E	Butylated h	ydroxytoluen	0	
Dermal	DNEL Lon	gterm System 0,5 mg/kg bw/day (Worker)		
Inhalative DNEL Longterm System		gterm System	1,76 mg/m3 (Worker)	
67-56-1 m	ethanol			
Dermal DNEL Longterm System		gterm System	20 mg/kg bw/day (Worker)	
Inhalative	DNEL Lon	gterm System	130 mg/m3 (Worker)	
·PNECs				
128-37-0 E	Butylated h	ydroxytoluen	9	
PNEC Marinewater sed   0,046 mg/kg sed dw (-)				
PNEC Freshwater 0,000199 mg/l (AF 1.000)		0,000199 n	ng/I (AF 1.000)	
-		0,00002 mg	g/l (AF 10.000)	
PNEC Freshwater sed 0,458 mg/kg sed dw (-)		d 0,458 mg/k	g sed dw (-)	
PNEC Soil 0,054 mg/kg soil dw (-)		g soil dw (-)		

0,017 mg/l (AF 100) · Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

PNEC STP

Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

General protective and

· Material of gloves

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

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

· Respiratory protection: Suitable respiratory protective device recommended.



· 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. 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

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· 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 a	nd chemical	properties
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· General Information

· Colour: Not determined. · Odour: Characteristic · Odour threshold: 69,8 °C · Melting point/freezing point:

· Boiling point or initial boiling point and boiling range Not applicable.

· 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.

265 °C

Product is not flammable.

Not determined. Not determined. 127 °C

>265 °C Not applicable.

Not applicable. Not applicable.

0,00076 g/l 5,1 log POW Not applicable.

1,03 g/cm3 Not determined. 650 kg/m<sup>3</sup> 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: Not determined.

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

mixtures are possible.

Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

 Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void Gases under pressure Void · Flammable liquids Void · Flammable solids Void · 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

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· Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· 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

10.5 Incompatible materials:

No further relevant information available.

10.5 Incompatible materials:
 10.6 Hazardous decomposition

omposition
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

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

· LD/LC50 values relevant for classification:

128-37-0 Butylated hydroxytoluene

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

67-56-1 methanol

products:

Oral LD50 1.187 mg/kg (rattus)

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin

Low irritant effect
Low irritant effect

sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

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

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

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

· 11.2 Information on other hazards

· Endocrine disrupting properties

List II

## SECTION 12: Ecological information

· 12.1 Toxicity

Aqualic	toxicity.	
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 5,1

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| (Contd. of page 5) | 67-56-1 | methanol | -0,77 (20°C) |
| 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.
• vPvB: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

· 12.6 Endocrine disrupting

properties12.7 Other adverse effectsFor information on endocrine disrupting properties see section 11.No further relevant information available.

· Additional ecological information:

General notes: 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

· 14 1 IIN number or ID number

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

number.

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

· 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 9

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles. · Label 9

· 14.4 Packing group · ADR, IMDG, IATA ||

• 14.5 Environmental hazards: Product contains environmentally hazardous substances: Butylated hydroxytoluene

· Marine pollutant: Yes Symbol (fish and tree)

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

• 14.6 Special precautions for user
• Stowage Category

Warning: Miscellaneous dangerous substances and articles.

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· 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.

· 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 Ε

· 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.

· Relevant phrases H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs. H371 May cause damage to organs. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

Department issuing SDS: Environment protection / Security of labour

Tel: +49 2871 9902-0 Contact:

E-mail: mail@pergan.com

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· Version number of previous version:

· 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

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
ELINCS: European List of Notified 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 concentration, 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.