

Printing date 05.01.2024 Version: 9 (replaces version 8) Revision: 20.12.2022

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

· 1.1 Product identifier

PERGASAFE FR · Trade name:

· CAS Number: 1889-67-4 217-568-2 · EC number: Registration number: 01-2119971824-27

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

For industrial use Fire retarding agent

· 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

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

· Hazard pictograms

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

GHS07

· Signal word Warning

· Hazard-determining

components of labelling: 2,3-Dimethyl-2,3-diphenylbutane **Hazard statements** H317 May cause an allergic skin reaction.

· Precautionary statements P261 Avoid breathing dust.

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

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse. P363

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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

· CAS No. Description 1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

Identification number(s)

· EC number: 217-568-2

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information: No special measures required.

· After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin.

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

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· After swallowing:

If symptoms persist consult doctor.

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· 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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from

the substance or mixture 5.3 Advice for firefighters Protective equipment:

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

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

6.2 Environmental precautions:

Not required.



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

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

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 No special measures required.

· 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

storerooms and receptacles: No special requirements.

· Information about storage in

one common storage facility: Not required. Further information about storage conditions:

· Recommended storage

temperature (To maintain

quality):

max.: +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: Not required.

·DNELs

1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

DNEL Longterm System 1 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 0.353 mg/m3 (Worker)

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· PNFCs

1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

PNEC Marinewater sed 250 mg/kg sed dw (-)

0.08 mg/l (-) PNEC Freshwater

PNEC Freshwater sed 250 mg/kg sed dw (-) PNEC Soil 49.7 mg/kg soil dw (-) PNEC STP 10 mg/I (AF 10)

0.08 mg/l (-) **PNEC Marinewater** 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.

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

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



Filter P1

· Hand protection Not required.

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.

· 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. Not required.



Safety glasses

· Body protection:

· Eye/face protection



Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Colour: Odour:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability

· Lower and upper explosion limit

· Lower:

· Flash point: · Decomposition temperature:

pН

· Viscosity:

· Upper:

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 applicable.

white - yellowish

Characteristic

Undetermined.

Not applicable.

Not determined.

Not determined.

Not applicable.

Not determined.

Product is not flammable.

Undetermined. not determined Not applicable.

1.1 g/cm³ Not determined. Not applicable.

· 9.2 Other information

Appearance:

· Form:

No further relevant information available.

Like powder

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Important information on protection of health and env	vironment,
and on safety.	
Ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· 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 gas	ses 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

· 10.1 Reactivity No further relevant information available.

· 10.3 Possibility of hazardous

No dangerous reactions known. reactions

· 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.

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:

1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

Oral LD50 >5,000 mg/kg (rattus)

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

· 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

Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

No further relevant information available. · Aquatic toxicity:

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· 12.2 Persistence and degradability

· Degree of elimination:

· Classification:

1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

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

6,68 (25°C)

· Bioconcentration factor (BCF)

1889-67-4 2,3-Dimethyl-2,3-diphenylbutane

BCF 1,275

• 12.4 Mobility in soil

No further relevant information available.

• 12.4 Mobility in soil No further • 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

propertiesThe product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects 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

• Recommendation Smaller quantities can be disposed of with household waste.

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

· 14.1 UN number or ID number
· ADR, IMDG, IATA Void

14.2 UN proper shipping name

· ADR, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA

· Class Void

· 14.4 Packing group
· ADR, IMDG, IATA Void

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Not applicable.

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

• **Transport/Additional information:** No dangerous good according the regulation of transport.

SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture No further relevant information available.

· Poisons Act

· Regulated explosives precursors

Substance is not listed.

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· Regulated poisons

Substance is not listed.

· Reportable explosives precursors

Substance is not listed.

Reportable poisons

Substance is not listed.

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

Substance is not listed.

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

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.

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

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)

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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1

* Data compared to the previous version altered.

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