

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

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

- **1.1 Product identifier**
- **Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105
- **EC number:**  
927-510-4
- **Registration number** 01-2119475515-33-XXXX
- **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** Cleaning agent/ Cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Bison International  
Dr.A.F.Philipsstraat 9  
NL-4462 EW Goes  
PO Box 160  
NL-4460 AD Goes  
tel. +31 88 3235700  
fax. +31 88 3235800  
e mail: sds@boltonadhesives.com
- **Further information obtainable from:** PSRA
- **1.4 Emergency telephone number:**  
Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)  
UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET)

For detailed information contact the national Poison Centre @  
<https://poisoncentres.echa.europa.eu/appointed-bodies>

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2          H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1          H304 May be fatal if swallowed and enters airways.



GHS09 environment

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



GHS07

(Contd. on page 2)

EU

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**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 1)

Skin Irrit. 2      H315 Causes skin irritation.  
 STOT SE 3      H336 May cause drowsiness or dizziness.

· **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**



GHS02   GHS07   GHS08   GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
 cyclohexane

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.  
 H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101      If medical advice is needed, have product container or label at hand.  
 P102      Keep out of reach of children.  
 P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
             No smoking.  
 P261      Avoid breathing vapours.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P331      Do NOT induce vomiting.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501      Dispose of contents/container in accordance with national regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.1 Substances**

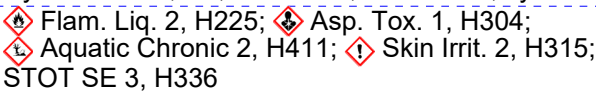
· **CAS No. Description**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

· **Identification number(s)**

· **EC number:** 927-510-4

· **Dangerous components:**

EC number: 927-510-4 Reg.nr.: 01-2119475515-33-XXXX	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 	50-100%
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(Contd. on page 3)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 2)

CAS: 110-82-7

EINECS: 203-806-2

Index number: 601-017-00-1

Reg.nr.: 01-2119463273-41-XXXX

cyclohexane

 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  
 Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  
 Skin Irrit. 2, H315; STOT SE 3, H336

≥1-<2.5%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

· **General information:** No special measures required.

#### · After inhalation:

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

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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

· **After swallowing:** If symptoms persist consult doctor.

#### · 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:

Water haze

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

#### · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### · 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

#### · Additional information

Cool endangered receptacles with water spray.

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

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:

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

(Contd. on page 4)

EU

## Safety data sheet

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Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 3)

Ensure adequate ventilation.

· **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.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Storage class:** 3

· **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:**

**110-82-7 cyclohexane**

IOELV Long-term value: 700 mg/m<sup>3</sup>, 200 ppm

· **DNELs**

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

Oral	Consumer, oral, longterm exposition	149 mg/kg bw/day (rat)
Dermal	Worker, dermal, longterm exposition	300 mg/kg bw/day (rat)
	Consumer, dermal, longterm exposition	149 mg/kg bw/day (rat)
Inhalative	Worker, inhalative, longterm exposition	2085 mg/m <sup>3</sup> (rat)
	Consumer, inhalative, longterm exposition	477 mg/m <sup>3</sup> (rat)

**110-82-7 cyclohexane**

Oral	Consumer, oral, longterm exposition	59.4 mg/kg bw/day (rat)
Dermal	Worker, dermal, longterm exposition	2016 mg/kg bw/day (rat)
	Consumer, dermal, longterm exposition	1186 mg/kg bw/day (rat)
Inhalative	Worker, inhalative, shortterm exposition	700 mg/m <sup>3</sup> (rat)
	Worker, inhalative, longterm exposition	700 mg/m <sup>3</sup> (rat)

(Contd. on page 5)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 4)

Consumer DNEL, acute inhalation	412 mg/m <sup>3</sup> (rat)
Consumer, inhalative, longterm exposition	206 mg/m <sup>3</sup> (rat)

· **PNECs**

**110-82-7 cyclohexane**

Fresh water	0.207 mg/l (rat)
Fresh water sediment	3.627 mg/kg dry weight (rat)
Marine water	0.207 mg/l (rat)
Marine sediment	3.627 mg/kg dry weight (rat)
Soil	2.99 mg/kg (rat)
Sewage treatment plant	3.24 mg/l (rat)

· **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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

· **Recommended filter device for short term use:** Filter A

· **Hand protection**

Solvent resistant gloves



Protective gloves

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

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

· **Material of gloves**

Recommended thickness of the material: > 0,12 mm

Nitrile rubber, NBR

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

· **Eye/face protection**



Tightly sealed goggles

Goggles recommended during refilling

(Contd. on page 6)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 5)

- **Body protection:**  
Use protective suit.  
Solvent resistant protective clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Transparent
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	94-99 °C
· <b>Flammability</b>	Highly flammable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1 Vol %
· <b>Upper:</b>	7 Vol %
· <b>Flash point:</b>	-7 °C
· <b>Auto-ignition temperature:</b>	258 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	5 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.868 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

#### · 9.2 Other information

All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.

##### · **Appearance:**

· **Form:** Liquid

##### · **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:** Not determined.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Organic solvents:** 100.0 %

· **Solids content:** 0.0 %

(Contd. on page 7)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

Trade name: GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 6)

- **Molecular weight** 99 g/mol
- **Change in condition**
- **Evaporation rate** Not determined.

· **Information with regard to physical hazard classes**

- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Highly flammable liquid and vapour.
- **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
- **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.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **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:** Danger of forming toxic pyrolysis products.

### 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:**

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rat)
Inhalative	LC50/4 h	>23.3 mg/l (rat)

**110-82-7 cyclohexane**

Oral	LD50	12705 mg/kg (rat)
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(Contd. on page 8)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 7)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Not applicable.  
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.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitisation** Not applicable.
- **Repeated dose toxicity** Not applicable.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

### 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 system.  
Disposal must be made according to official regulations.

(Contd. on page 9)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)






Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 8)

- **Uncleaned packaging:**
- **Recommendation:**  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · <b>ADR/ADN, IMDG, IATA</b>	UN1206
· <b>14.2 UN proper shipping name</b> · <b>ADR/ADN</b> · <b>IMDG</b> · <b>IATA</b>	1206 HEPTANES HEPTANES, MARINE POLLUTANT HEPTANES
· <b>14.3 Transport hazard class(es)</b> · <b>ADR/ADN</b>	
 	
· <b>Class</b> · <b>Label</b>	3 (F1) Flammable liquids. 3
· <b>IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids. 3
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids. 3
· <b>14.4 Packing group</b> · <b>ADR/ADN, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (ADR/ADN):</b>	Product contains environmentally hazardous substances: cyclohexane Yes Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b>	Warning: Flammable liquids. 33

(Contd. on page 10)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 9)

<ul style="list-style-type: none"> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	<p>F-E,S-D B</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>Quantity limitations</b></li> </ul>	<p>On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L</p>
<ul style="list-style-type: none"> <li>· <b>ADR/ADN</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>2 D/E</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 1206 HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS</p>

### 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**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 57

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

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

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

None of the ingredients is listed.

(Contd. on page 11)

EU

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.07.2024

Version number 108 (replaces version 107)

Revision: 31.07.2024

**Trade name:** GRF PE CLNR HEAVY DUTY BO 1L\*12 L105

(Contd. of page 10)

· **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.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** PSRA

· **Contact:** PSRA

· **Date of previous version:** 23.01.2022

· **Version number of previous version:** 107

· **Abbreviations and acronyms:**

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

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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