

# Safety data sheet according to 1907/2006/EC, Article 31

Version number 107 (replaces version 106) Printing date 12.02.2023 Revision: 12.02.2023

# 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
- · 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: Bison QESH
- · 1.4 Emergency telephone number: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)

# **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

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



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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- · 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

- · Signal word Danger
- · Hazard-determining components of labelling:

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

**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** 

If medical advice is needed, have product container or label at hand. P101

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.

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

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· Dangerous components:			
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	50-100%	
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1 Reg.nr.: 01-2119463273-41	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.

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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 item 13.

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/m³, 200 ppm

- · 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 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.

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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

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

· Physical state Fluid

Colour: TransparentOdour: CharacteristicOdour threshold: Not determined.

· Melting point/freezing point: -50 °C

Boiling point or initial boiling point and

boiling range 162 °C

• **Flammability** Highly flammable.

· Lower and upper explosion limit

 · Lower:
 0.7 Vol %

 · Upper:
 7.5 Vol %

 · Flash point:
 <0 °C</td>

 · Ignition temperature:
 450 °C

· **Decomposition temperature:** Not determined.

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(Contd. of page 5) · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log Not determined. value) · Vapour pressure at 20 °C: 5 hPa Density and/or relative density Density at 20 °C: 0.868 g/cm<sup>3</sup> Relative density Not determined. Not determined. · Vapour density · 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. · Auto-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 % · 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

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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:

### 110-82-7 cyclohexane

Oral LD50 12705 mg/kg (rat)

· 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.

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- 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:

Water hazard class 2 (German Regulation) (Self-assessment): 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.

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.

- · 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**

· 14.1 UN number or ID number

· ADR/ADN, IMDG, IATA UN1206

· 14.2 UN proper shipping name

· ADR/ADN 1206 HEPTANES

· IMDG HEPTANES, MARINE POLLUTANT

· IATA HEPTANES

· 14.3 Transport hazard class(es)

· ADR/ADN



Class 3 (F1) Flammable liquids.

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Label	3
IMDG	
Class Label	3 Flammable liquids. 3
IATA	
Class Label	3 Flammable liquids.
14.4 Packing group ADR/ADN, IMDG, IATA	II
14.5 Environmental hazards:	Product contains environmentally hazardous substances: cyclohexane
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/ADN):	Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR/ADN Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ)	1L
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· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Remarks:	Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
· UN "Model Regulation":	UN 1206 HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

## **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.

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.

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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: Bison QESH

· Contact: Reach coordinator

Date of previous version: 23.01.2022

· Version number of previous version: 106

· 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)

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

SKIT IIII. 2. SKIT corrosion/iiiiation – 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

\* Data compared to the previous version altered.

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