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

1. **Product identifier**
   - **Trade name:** GRIFFON PE CLEANER HEAVY DUTY BOT 1L*12 L105
   - **CAS Number:** 92045-53-9
   - **EC number:** 927-510-4
   - **Index number:** 649-328-00-1
   - **Registration number:** 01-2119475515-33

2. **Relevant identified uses of the substance or mixture and uses advised against**
   - No further relevant information available.

3. **Application of the substance / the mixture**
   - Cleaning agent/ Cleaner

4. **Details of the supplier of the safety data sheet**
   - **Manufacturer(1)/Supplier(2):**
     - 1
     - 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

5. **Further information obtainable from:** Bison QESH

6. **Emergency telephone number:** +31 88 3235700

### SECTION 2: Hazards identification

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.
     - 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.

(Contd. on page 2)
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:
Naphtha (petroleum), hydrodesulfurized light de-aromatized 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.
P370+P378 In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.
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
92045-53-9 Naphtha (petroleum), hydrodesulfurized light de-aromatized

Identification number(s)
EC number: 927-510-4
Index number: 649-328-00-1
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 stable 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. If symptoms persist, consult a doctor.

After swallowing:
Do not induce vomiting; call for medical help immediately.

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: Mount respiratory protective device.
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.

(Contd. on page 4)
Safety data sheet
according to 1907/2006/EC, Article 31

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Trade name: GRIFFON PE CLEANER HEAVY DUTY BOT 1L*12 L105

(Contd. of page 3)

6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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:
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 ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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 receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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:

<table>
<thead>
<tr>
<th>110-82-7 cyclohexane</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL (Great Britain)</td>
</tr>
<tr>
<td>IOELV (European Union)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

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

(Contd. on page 5)
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

**Protection of hands:**

Protective gloves

Solvent resistant 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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

**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.

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 protection:**

![Tightly sealed goggles]

**Body protection:**

Use protective suit.

Solvent resistant protective clothing

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**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information**

**Appearance:**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Transparent</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

**pH-value:**

Not determined.

**Change in condition**

**Melting point/freezing point:**

-50 °C

(Contd. on page 6)
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 toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
Trade name: GRIFFON PE CLEANER HEAVY DUTY BOT 1L*12 L105

LD/LC50 values relevant for classification:
- 110-82-7 cyclohexane
  - Oral LD50: 12,705 mg/kg (rat)

Primary irritant effect:
- 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - 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.
- 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.

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.
Ecotoxic effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - 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
12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
12.6 Other adverse effects
- No further relevant information available.

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.
- Uncleaned packaging:
  - Recommendation:
    - Disposal must be made according to official regulations.
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
ADR/ADN, IMDG, IATA
UN1206

14.2 UN proper shipping name
ADR/ADN
1206 HEPTANES, ENVIRONMENTALLY HAZARDOUS
IMDG
HEPTANES, MARINE POLLUTANT
IATA
HEPTANES

14.3 Transport hazard class(es)
ADR/ADN
Class
3 (F1) Flammable liquids.
Label
3

IMDG
Class
3 Flammable liquids.
Label
3

IATA
Class
3 Flammable liquids.
Label
3

14.4 Packing group
ADR/ADN, IMDG, IATA
II

14.5 Environmental hazards:
Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
Marine pollutant:
Yes
Special marking (ADR/ADN):
Symbol (fish and tree)

14.6 Special precautions for user
Warning: Flammable liquids.
Danger code (Kemler):
33
EMS Number:
F-E,S-D
47.1.11 Stowage Category

B

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR/ADN

Limited quantities (LQ) 1L Code: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

Transport category 2

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 1L 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

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: Bison QESH
Contact: Reach coördinator

Abbreviations and acronyms:
ADR: Accord européen sur le transport 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
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.