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

1.1 Product identifier

Trade name: Griffon HCR Cleaner
CAS Number: 75-09-2
EC number: 200-838-9
Index number: 602-004-00-3

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: msds@bison.boltongroup.nl

Further information obtainable from: Bison QESH

1.4 Emergency telephone number: +31 88 3235700

* 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Carc. 2 H351 Suspected of causing cancer.

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

GHS08

Signal word Warning

Hazard-determining components of labelling: dichloromethane

Hazard statements
H351 Suspected of causing cancer.

Precautionary statements
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P201 Obtain special instructions before use.

(Contd. on page 2)
2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.1 Substances

CAS No. Description
75-09-2 dichloromethane

Identification number(s)
EC number: 200-838-9
Index number: 602-004-00-3

Dangerous components:
CAS: 75-09-2 dichloromethane
EINECS: 200-838-9
Reg.nr.: 01-2119480404-41

50-100%
Carc. 2, H351

4 First aid measures

4.1 Description of first aid measures

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.

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.

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

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

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).
Dispense contaminated material as waste according to item 13.
Ensure adequate ventilation.

(Contd. of page 1)
7 Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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: None.

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

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
75-09-2 dichloromethane
WEL () Short-term value: 1060 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm
BMGV, SK

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. Wash hands before breaks and at the end of work.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.
9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:
- Form: Fluid
- Colour: Colourless
- Odour: Like chlorine
- Odour threshold: Not determined.
- pH-value: Not determined.

Change in condition
- Melting point/Melting range: -95.1 °C
- Boiling point/Boiling range: 40 °C

Flash point: Not applicable.
Flammability (solid, gaseous): Not applicable.
Ignition temperature: 605 °C
Decomposition temperature: Not determined.
Self-igniting: Not determined.
Danger of explosion: Product does not present an explosion hazard.

Explosion limits:
- Lower: 13 Vol %
- Upper: 22 Vol %

Vapour pressure at 20 °C: 453 hPa
Density at 20 °C: 1.33 g/cm³
Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not determined.
Solubility in / Miscibility with water at 20 °C: 20 g/l
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
- Dynamic: Not determined.
- Kinematic: Not determined.

9.2 Other information
No further relevant information available.

10 Stability and reactivity

10.1 Reactivity
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.
11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

75-09-2 dichloromethane

Oral LD₅₀ 2136 mg/kg (rat)
Inhalative LC₅₀/4 h 88 mg/l (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. 2

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.

Additional ecological information:

General notes:

Danger to drinking water if even small quantities leak into the ground. Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

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.

14 Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1593

14.2 UN proper shipping name

ADR 1593 DICHLOROMETHANE

IMDG, IATA DICHLOROMETHANE
### Transport hazard class(es)

- **ADR**
  - **Class**: 6.1 (T1) Toxic substances.
  - **Label**: 6.1

- **IMDG, IATA**
  - **Class**: 6.1 Toxic substances.
  - **Label**: 6.1

### Packing group
- **ADR, IMDG, IATA**: III

### Environmental hazards:
- **Marine pollutant**: No

### Special precautions for user
- **Warning**: Toxic substances.
- **Danger code (Kemler)**: 60
- **EMS Number**: F-A,S-A
- **Segregation groups**: Liquid halogenated hydrocarbons

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- **Transport category**: 2
- **Tunnel restriction code**: E

### Transport/Additional information:
- **ADR**
  - **Limited quantities (LQ)**: 5L
  - **Excepted quantities (EQ)**: Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **IMDG**
  - **Limited quantities (LQ)**: 5L
  - **Excepted quantities (EQ)**: Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 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":
- UN1593, DICHLOROMETHANE, 6.1, III
15 Regulatory information

- Registration number 01-2119480404-41
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
  The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms

  GHS08

- Signal word Warning

- Hazard-determining components of labelling:
  dichloromethane

- Hazard statements
  H351 Suspected of causing cancer.

- Precautionary statements
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P201 Obtain special instructions before use.
  P202 Do not handle until all safety precautions have been read and understood.
  P308+P313 IF exposed or concerned: Get medical advice/attention.
  P501 Dispose of contents/container in accordance with national regulations.

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

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
  H351 Suspected of causing cancer.

- Department issuing MSDS: QESH Department
- Contact: Reach coördinator

- Abbreviations and acronyms:
  Carc. 2: Carcinogenicity, Hazard Category 2
- * Data compared to the previous version altered.
1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Griffon HCR Cleaner
CAS Number: 75-09-2
EC number: 200-838-9
Index number: 602-004-00-3

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: msds@bison.bolongroup.nl

Further information obtainable from: Bison QESH

1.4 Emergency telephone number: +31 88 3235700

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Carc. 2 H351 Suspected of causing cancer.

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

GHS08

Signal word: Warning

Hazard-determining components of labelling:
dichloromethane

Hazard statements
H351 Suspected of causing cancer.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P201 Obtain special instructions before use.

(Contd. on page 2)
39.0

P202 Do not handle until all safety precautions have been read and understood.
P308+P313 IF exposed or concerned: Get medical advice/attention.
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.

3 Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Description</th>
<th>Identification number(s)</th>
<th>EC number</th>
<th>Index number</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td></td>
<td>200-838-9</td>
<td>602-004-00-3</td>
</tr>
</tbody>
</table>

Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 75-09-2</th>
<th>dichloromethane</th>
<th>50-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-838-9</td>
<td>Carc. 2, H351</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119480404-41</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4 First aid measures

4.1 Description of first aid measures

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.
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.

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

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

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.

7 Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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: None.

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

8 Exposure controls/personal protection

Additional information about design of technical facilities:
No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
75-09-2 dichloromethane
WEL (Great Britain) Short-term value: 1060 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm
BMGV, Sk

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.
Wash hands before breaks and at the end of work.
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.
9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

- **Appearance:** Fluid
- **Colour:** Colourless
- **Odour:** Like chlorine
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

Change in condition

- **Melting point/Melting range:** -95.1 °C
- **Boiling point/Boiling range:** 40 °C

- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 605 °C
- ** Decomposition temperature:** Not determined.
- **Self-igniting:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**
  - Lower: 13 Vol %
  - Upper: 22 Vol %

- **Vapour pressure at 20 °C:** 453 hPa
- **Density at 20 °C:** 1.33 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with water at 20 °C:** 20 g/l

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity
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.
11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:
  - 75-09-2 dichloromethane
  - Oral LD50 2136 mg/kg (rat)
  - Inhalative LC50/4 h 88 mg/l (rat)
- Primary irritant effects:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - Carc. 2

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.
- Additional ecological information:
  - General notes:
    - Danger to drinking water if even small quantities leak into the ground.
    - Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - 12.6 Other adverse effects No further relevant information available.

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.

14 Transport information

- 14.1 UN-Number
  - ADR, IMDG, IATA UN1593
- 14.2 UN proper shipping name
  - ADR 1593 DICHLOROMETHANE
  - IMDG, IATA DICHLOROMETHANE
39.0

14.3 Transport hazard class(es)

ADR

Class 6.1 (T1) Toxic substances.

Label 6.1

IMDG, IATA

Class 6.1 Toxic substances.

Label 6.1

14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Warning: Toxic substances.

Danger code (Kemler): 60

EMS Number: F-A,S-A

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category 2

Tunnel restriction code E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 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": UN1593, DICHLOROMETHANE, 6.1, III
15 Regulatory information

- Registration number 01-2119480404-41
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
  The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms

GHS08

- Signal word Warning
- Hazard-determining components of labelling:
  dichloromethane
- Hazard statements
  H351 Suspected of causing cancer.
- Precautionary statements
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P201 Obtain special instructions before use.
  P202 Do not handle until all safety precautions have been read and understood.
  P308+P313 IF exposed or concerned: Get medical advice/attention.
  P501 Dispose of contents/container in accordance with national regulations.
- 15.2 Chemical safety assessment:
  A Chemical Safety Assessment has not been carried out.

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
  H351 Suspected of causing cancer.
- Department issuing MSDS: QESH Department
- Contact: Reach coördinator
- Abbreviations and acronyms:
  Carc. 2: Carcinogenicity, Hazard Category 2
- * Data compared to the previous version altered.