

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

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

. 1.1 Product identifier

. **Trade name:** GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

. **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** Lubricant

. 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

2 Hazards identification

. 2.1 Classification of the substance or mixture

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

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container:
May burst if heated.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

. 2.2 Label elements

. **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

. Hazard pictograms



GHS02



GHS07



GHS08

. **Signal word** Danger

. Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated heavy
Distillates (petroleum), hydrotreated light

. Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

. Precautionary statements

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

P102 Keep out of reach of children.

(Contd. on page 2)

GB



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 1)

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing spray.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container in accordance with national regulations.

. Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

. 2.3 Other hazards

. Results of PBT and vPvB assessment

- . PBT: Not applicable.
- . vPvB: Not applicable.

3 Composition/information on ingredients

. 3.2 Mixtures

. **Description:** Lubricant

. Dangerous components:

CAS: 106-97-8	butane	10-25%
EINECS: 203-448-7	⚠ Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119474691-32		
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-25%
EC number: 919-857-5	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	10-25%
EC number: 918-481-9	⚠ Asp. Tox. 1, H304	
CAS: 67-63-0	propan-2-ol	2.5-10%
EINECS: 200-661-7	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319;	
Reg.nr.: 01-2119457558-25	STOT SE 3, H336	
CAS: 74-98-6	propane	2.5-10%
EINECS: 200-827-9	⚠ Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119486944-21		
CAS: 109-87-5	dimethoxymethane	2.5-10%
EINECS: 203-714-2	⚠ Flam. Liq. 2, H225	
Reg.nr.: 01-2119664781-31		
CAS: 75-28-5	isobutane	≤ 2.5%
EINECS: 200-857-2	⚠ Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 109-66-0	pentane	≤ 2.5%
EINECS: 203-692-4	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	≤ 2.5%
EC number: 931-254-9	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304;	
Reg.nr.: 01-2119484651-34	⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	≤ 2.5%
EC number: 926-605-8	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304;	
Reg.nr.: 01-2119486291-36	⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	

(Contd. on page 3)

GB



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 2)

. Additional information:

For the wording of the listed risk phrases refer to section 16.

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. 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.

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.

6 Accidental release measures

. 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

. 6.2 Environmental precautions:

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

. 6.3 Methods and material for containment and cleaning up:

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.

Open and handle receptacle with care.

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

. Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 3)

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

. 7.2 Conditions for safe storage, including any incompatibilities**. Storage:****. Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

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

Keep receptacle tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

. 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:****106-97-8 butane**WEL Short-term value: 1810 mg/m³, 750 ppmLong-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1,3-diene)

67-63-0 propan-2-olWEL Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm**109-87-5 dimethoxymethane**WEL Short-term value: 3950 mg/m³, 1250 ppmLong-term value: 3160 mg/m³, 1000 ppm**109-66-0 pentane**WEL Long-term value: 1800 mg/m³, 600 ppm**. 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.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

. Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

. Recommended filter device for short term use: Filter AX**. Protection of hands:**

Protective gloves

Solvent resistant gloves

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 4)

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. 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.

. Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye protection:


Tightly sealed goggles

. Body protection: Solvent resistant protective clothing

9 Physical and chemical properties
. 9.1 Information on basic physical and chemical properties
. General Information
. Appearance:
Form:

Aerosol

Colour:

According to product specification

. Odour:

Characteristic

. Odour threshold:

Not determined.

. pH-value:

Not determined.

. Change in condition
Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

-44 °C

. Flash point:

< 0 °C

. Flammability (solid, gaseous):

Not applicable.

. Ignition temperature:

210 °C

. Decomposition temperature:

Not determined.

. Self-igniting:

Product is not selfigniting.

. Danger of explosion:

Not determined.

. Explosion limits:
Lower:

0.5 Vol %

Upper:

8.5 Vol %

. Vapour pressure at 20 °C:

2100 hPa

. Density at 20 °C:

 0.644 g/cm³
. Relative density

Not determined.

. Vapour density

Not determined.

(Contd. on page 6)

GB



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 5)

- . **Evaporation rate** Not applicable.
- . **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- . **Partition coefficient (n-octanol/water):** Not determined.
- . **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
 - Solids content:** 27.1 %
- . **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.
- . **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.

11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity**
- . **LD/LC50 values relevant for classification:**
64742-48-9 Naphtha (petroleum), hydrotreated heavy
Oral LD50 >5000 mg/kg (rat)
Dermal LD50 >3000 mg/kg (rab)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** No irritant effect.
- . **Serious eye damage/irritation** No irritating effect.
- . **Respiratory or skin sensitisation** No sensitising effects known.

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:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 6)

. 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, ADN, IMDG, IATA

UN1950

. 14.2 UN proper shipping name

. ADR/ADN

1950 AEROSOLS

. IMDG

AEROSOLS

. IATA

AEROSOLS, flammable

. 14.3 Transport hazard class(es)

. ADR/ADN



. Class

2 5F Gases.

. Label

2.1

. IMDG, IATA



. Class

2.1

. Label

2.1

. 14.4 Packing group

. ADR, ADN, IMDG, IATA

Void

. 14.5 Environmental hazards:

. Marine pollutant:

No

. 14.6 Special precautions for user

Warning: Gases.

. Danger code (Kemler):

-

. EMS Number:

F-D, S-U

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

Not applicable.

. Transport/Additional information:

. ADR/ADN

. Limited quantities (LQ)

1L

. Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 7)

- . **Transport category** 2
- . **Tunnel restriction code** D
- . **IMDG**
- . **Limited quantities (LQ)** 1L
- . **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- . **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":** UN1950, AEROSOLS, 2.1

15 Regulatory information

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



GHS02



GHS07



GHS08

- . **Signal word** Danger
- . **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated heavy
Distillates (petroleum), hydrotreated light
- . **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
- . **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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with national regulations.
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- . **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

GB



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 8)

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

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

. Department issuing MSDS: QESH Department

. Contact: Reach coördinator

. Abbreviations and acronyms:

Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

. * Data compared to the previous version altered.

GB

Safety data sheet

according to 1907/2006/EC, Article 31

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No further relevant information available.**Application of the substance / the mixture** Lubricant**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**2 Hazards identification****2.1 Classification of the substance or mixture****Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Not applicable.

F+; Extremely flammable

R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurised container.

Has a narcotising effect.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

F+ Extremely flammable

(Contd. on page 2)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 1)

. Risk phrases:

- 12 Extremely flammable.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

. Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe spray.
- 24 Avoid contact with skin.
- 51 Use only in well-ventilated areas.

. Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.

. Classification in accordance with Directive 75/324/EEC: Extremely flammable

. 2.3 Other hazards

. Results of PBT and vPvB assessment

- . PBT: Not applicable.
- . vPvB: Not applicable.

* 3 Composition/information on ingredients

. 3.2 Mixtures

. Description: Lubricant

. Dangerous components:

CAS: 106-97-8	butane	10-25%
EINECS: 203-448-7	F+ R12	
Reg.nr.: 01-2119474691-32		
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-25%
EC number: 919-857-5	Xn R65	
	R10-66-67	
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	10-25%
EC number: 918-481-9	Xn R65	
	R66	
CAS: 67-63-0	propan-2-ol	2,5-10%
EINECS: 200-661-7	Xi R36; F R11	
Reg.nr.: 01-2119457558-25	R67	
CAS: 74-98-6	propane	2,5-10%
EINECS: 200-827-9	F+ R12	
Reg.nr.: 01-2119486944-21		
CAS: 109-87-5	dimethoxymethane	2,5-10%
EINECS: 203-714-2	F R11	
Reg.nr.: 01-2119664781-31		
CAS: 75-28-5	isobutane	≤ 2,5%
EINECS: 200-857-2	F+ R12	
CAS: 109-66-0	pentane	≤ 2,5%
EINECS: 203-692-4	Xn R65; F+ R12; N R51/53	
	R66-67	

(Contd. on page 3)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

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Version number 14

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(Contd. of page 2)

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EC number: 931-254-9 Xn R65; Xi R38; F R11; N R51/53
Reg.nr.: 01-2119484651-34 R67

CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light $\leq 2,5\%$
EC number: 926-605-8 Xn R65; F R11; N R51/53
Reg.nr.: 01-2119486291-36 R66-67

Additional information:

For the wording of the listed risk phrases refer to section 16.

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. 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.

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.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

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.

(Contd. on page 4)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 3)

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

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

Further information about storage conditions:

Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

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:

106-97-8 butane

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0,1% of buta-1,3-diene)

67-63-0 propan-2-ol

WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

109-87-5 dimethoxymethane

WEL (Great Britain) Short-term value: 3950 mg/m³, 1250 ppm
Long-term value: 3160 mg/m³, 1000 ppm

109-66-0 pentane

WEL (Great Britain) Long-term value: 1800 mg/m³, 600 ppm

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.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

(Contd. on page 5)

GB-D

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 4)

. Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

. Recommended filter device for short term use: Filter AX

. Protection of hands:


Protective gloves

Solvent resistant 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. 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.

. Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye protection:


Tightly sealed goggles

. Body protection: Solvent resistant protective clothing

9 Physical and chemical properties
. 9.1 Information on basic physical and chemical properties
. General Information
. Appearance:
Form:

Aerosol

Colour:

According to product specification

. Odour:

Characteristic

. Odour threshold:

Not determined.

. pH-value:

Not determined.

. Change in condition
Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

-44 °C

. Flash point:

< 0 °C

. Flammability (solid, gaseous):

Not applicable.

. Ignition temperature:

210 °C

. Decomposition temperature:

Not determined.

. Self-igniting:

Product is not selfigniting.

. Danger of explosion:

Not determined.

(Contd. on page 6)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 5)

- . **Explosion limits:**
 - Lower: 0,5 Vol %
 - Upper: 8,5 Vol %
- . **Vapour pressure at 20 °C:** 2100 hPa
- . **Density at 20 °C:** 0,644 g/cm³
- . **Relative density** Not determined.
- . **Vapour density** Not determined.
- . **Evaporation rate** Not applicable.
- . **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- . **Partition coefficient (n-octanol/water):** Not determined.
- . **Viscosity:**
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- . **Solids content:** 27,1 %
- . **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.
- . **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.

11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity**
- . **LD/LC50 values relevant for classification:**
64742-48-9 Naphtha (petroleum), hydrotreated heavy
Oral LD50 >5000 mg/kg (rat)
Dermal LD50 >3000 mg/kg (rab)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** No irritant effect.
- . **Serious eye damage/irritation** No irritating effect.
- . **Respiratory or skin sensitisation** No sensitising effects known.

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.

(Contd. on page 7)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 6)

. **Additional ecological information:**

. **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

. **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, ADN, IMDG, IATA**

UN1950

. **14.2 UN proper shipping name**

. **ADR/ADN**

1950 AEROSOLS

. **IMDG**

AEROSOLS

. **IATA**

AEROSOLS, flammable

. **14.3 Transport hazard class(es)**

. **ADR/ADN**



. **Class**

2 5F Gases.

. **Label**

2.1

. **IMDG, IATA**



. **Class**

2.1

. **Label**

2.1

. **14.4 Packing group**

. **ADR, ADN, IMDG, IATA**

Void

. **14.5 Environmental hazards:**

. **Marine pollutant:**

No

. **14.6 Special precautions for user** Warning: Gases.

. **Danger code (Kemler):**

-

(Contd. on page 8)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14


Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 7)

- . **EMS Number:** F-D,S-U
- . **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- . **Transport/Additional information:**
- . **ADR/ADN**
- . **Limited quantities (LQ)** 1L
- . **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- . **Transport category** 2
- . **Tunnel restriction code** D
- . **IMDG**
- . **Limited quantities (LQ)** 1L
- . **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- . **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

* 15 Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- . **Code letter and hazard designation of product:**
 F+ Extremely flammable
- . **Risk phrases:**
12 Extremely flammable.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
- . **Safety phrases:**
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe spray.
24 Avoid contact with skin.
51 Use only in well-ventilated areas.
- . **Special labelling of certain preparations:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
- . **Classification in accordance with Directive 75/324/EEC:** Extremely flammable
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.

(Contd. on page 9)

GB-D



1233543 - GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

Safety data sheet

DPD Declaration

according to 1907/2006/EC, Article 31

Printing date 06.08.2015

Version number 14

Revision: 06.08.2015

Trade name: GRIFFON CONTACT SPRAY AER 200ML*12 NLFR

(Contd. of page 8)

. 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

- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

. **Department issuing MSDS:** QESH Department

. **Contact:** Reach coördinator

. *** Data compared to the previous version altered.**

GB-D