

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/24/2019

Reviewed on 05/24/2019

1 Identification

- **Product identifier**
- **Trade name:** GRIFFON VERIMOR AER 300ML*12 L1
- **Application of the substance / the mixture** Metal-working product
- **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
- **Information department:** Bison QESH
- **Emergency telephone number:** +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), heavy arom.

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N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo]phenyl]azo]naphthalen-2-amine
Distillates (petroleum), hydrotreated light naphthenic

Hazard statements

- H222 Extremely flammable aerosol.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P261 Avoid breathing spray.
- P280 Wear protective gloves / eye protection.
- 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.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2
Fire = 4
Reactivity = 3

HMIS-ratings (scale 0 - 4)



HEALTH 2 Health = 2
FIRE 4 Fire = 4
REACTIVITY 3 Reactivity = 3

Other hazards

Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Metal working product

Dangerous components:

106-97-8	butane	25-50%
112-34-5	2-(2-butoxyethoxy)ethanol	10-25%
64742-94-5	Solvent naphtha (petroleum), heavy arom.	10-25%
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	10-25%
74-98-6	propane	2.5-10%
75-28-5	isobutane	1-2.5%
56358-10-2	N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo]phenyl]azo]naphthalen-2-amine	1-2.5%
91-20-3	naphthalene	<1%

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- **Additional information:** For CAS number 74742-53-6 Nota L is applicable.

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

106-97-8	butane	5500* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
74-98-6	propane	5500* ppm

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75-28-5	isobutane	5500* ppm
91-20-3	naphthalene	15 ppm

· PAC-2:

106-97-8	butane	17000** ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
74-98-6	propane	17000** ppm
75-28-5	isobutane	17000** ppm
91-20-3	naphthalene	83 ppm

· PAC-3:

106-97-8	butane	53000*** ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
74-98-6	propane	33000*** ppm
75-28-5	isobutane	53000*** ppm
91-20-3	naphthalene	500 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurized 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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class:** 2 B
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

106-97-8 butane

REL	Long-term value: 1900 mg/m ³ , 800 ppm
TLV	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)

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112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 67.5* mg/m³, 10* ppm
*Inhalable fraction and vapor

74-98-6 propane

PEL Long-term value: 1800 mg/m³, 1000 ppm
REL Long-term value: 1800 mg/m³, 1000 ppm
TLV refer to Appendix F in TLVs&BEIs book; D, EX

75-28-5 isobutane

TLV Short-term value: 2370 mg/m³, 1000 ppm
(EX)

91-20-3 naphthalene

PEL Long-term value: 50 mg/m³, 10 ppm
REL Short-term value: 75 mg/m³, 15 ppm
Long-term value: 50 mg/m³, 10 ppm
TLV Long-term value: 52 mg/m³, 10 ppm
Skin; BEI

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

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 eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



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).

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- **Eye protection:**
Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Aerosol
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44.5 °C (-48.1 °F)

- **Flash point:** -97 °C (-142.6 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 225 °C (437 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower:	0.9 Vol %
Upper:	8.5 Vol %

- **Vapor pressure at 20 °C (68 °F):** 2100 hPa (1575.1 mm Hg)

- **Density at 20 °C (68 °F):** 0.621 g/cm³ (5.182 lbs/gal)

- **Relative density** Not determined.

- **Vapor 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 at 20 °C (68 °F):	25 mPas
Kinematic:	Not determined.

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· Solvent content:	
Organic solvents:	61.5 %
VOC content:	63.72 %
· Solids content:	0.2 %
· 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.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Danger of toxic pyrolysis products.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

106-97-8 butane

Inhalative	LC50/4 h	658 mg/l (rat)
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112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

91-20-3 naphthalene

Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

91-20-3	naphthalene	2B
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· **Transport hazard class(es)**

· **DOT**



· **Class** 2.1
· **Label** 2.1

· **ADR/ADN**



· **Class** 2.5F Gases
· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1
· **Label** 2.1

· **Packing group**

· **DOT, ADR/ADN, IMDG, IATA** not regulated

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Gases

· **Danger code (Kemler):** -

· **EMS Number:** F-D,S-U

· **Stowage Code**

· **Segregation Code**

SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

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· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg

· ADR/ADN	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

· 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":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

112-34-5 | 2-(2-butoxyethoxy)ethanol

91-20-3 | naphthalene

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **TSCA new (21st Century Act): (Substances not listed)**

56358-10-2 | N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo]phenyl]azo]naphthalen-2-amine

· **Hazardous Air Pollutants**

91-20-3 | naphthalene

· **Proposition 65**

· **Chemicals known to cause cancer:**

91-20-3 | naphthalene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

91-20-3	naphthalene	C, CBD
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· **TLV (Threshold Limit Value established by ACGIH)**

91-20-3	naphthalene	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

Solvent naphtha (petroleum), heavy arom.
N-(2-ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo]phenyl]azo]naphthalen-2-amine
Distillates (petroleum), hydrotreated light naphthenic

· **Hazard statements**

H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P280 Wear protective gloves / eye protection.
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.

· **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.

- **Department issuing SDS:** Bison QESH
- **Contact:** Reach coordinator
- **Date of preparation / last revision** 05/24/2019 / 89

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· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Aerosol 1: Aerosols – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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

US-US