

Printing date 01/13/2023 Reviewed on 01/13/2023

#### 1 Identification

. Product identifier

**ATTBLIME - AB24** . Trade name:

. Application of the substance / the

mixture

Coating material

Flatting agent, Matting agent

. Details of the supplier of the safety data sheet

. Manufacturer/Supplier: Graichen

Produktions- und Vertiebs-GmbH Darmstädter Str. 127 - 129 D-64625 Bensheim Tel.: +49(0)6251/73103 Fax: +49(0)6251/77901

e-mail:info@graichen-bensheim.de homepage:http//www.graichen.net

. Information department: **Product Safety Department** 

Emergency medical information for poisoning:

Graichen: During business hours :+49(0)6251 7707880 . Emergency telephone number:

Graichen: Outside business hours:+49(0)172 7478476

Poison Information Center Mainz - 24h -

Tel.: +49 (0) 6131 19240 USA / CAN: 800-424-9300 (available 24 hrs)

## 2 Hazard(s) identification

#### Classification of the substance or mixture

Flammable Aerosols 1 H222 Extremely flammable aerosol.

Gases under Pressure - Compressed gas H280 Contains gas under pressure; may explode if heated.

Label elements

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

. Hazard pictograms

GHS02 GHS04

Signal word Danger

. Hazard statements Extremely flammable aerosol.

Contains gas under pressure; may explode if heated. . Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Information pertaining to particular dangers for man and environment:

. NFPA ratings (scale 0 - 4)

Health = 0 Fire = 4

Reactivity = 0

. HMIS-ratings (scale 0 - 4)

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Health = 0 Fire = 4

REACTIVITY 3 Reactivity = 3

#### Other hazards

. Results of PBT and vPvB assessment

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

## 3 Composition/information on ingredients

. Chemical characterization: Mixtures

. Description: Active substance with propellant

. Dangerous components:				
CAS: 106-97-8		25 – 50%		
	♦ Flammable Gases 1, H220; ♦ Gases under Pressure - Compressed gas, H280			
	propane	10 – 25%		
	♦ Flammable Gases 1, H220; ♦ Gases under Pressure - Compressed gas, H280			
V 1 1.0. 1 . C				

. Additional information: For the wording of the listed hazard phrases refer to section 16.

# 4 First-aid measures

Description of first aid measures

. After inhalation: Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

Use a respiration bag or breathing device.

Rinse opened eye for several minutes under running water. Then consult a doctor. . After eye contact:

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. After swallowing:

Seek immediate medical advice.
A person vomiting while lying on their back should be turned onto their side.

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. Information for doctor:

Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special

No further relevant information available.

No further relevant information available.

#### 5 Fire-fighting measures

. Extinguishing media

treatment needed

. 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
Advice for firefighters
Protective equipment:

Can form explosive gas-air mixtures.

Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device.

Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official

regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Environmental precautions: Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

Methods and material for

containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents
Reference to other sections
See Section 8 for information on personal protection

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

. Protective Action Criteria for Chemicals

- 1 101001110710		
. PAC-1:		
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	5500* ppm
CAS: 74-98-6	propane	5500* ppm
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	5500* ppm
CAS: 74-84-0	ethane	65000*** ppm
CAS: 109-66-0	pentane	3000* ppm
	1-Buten	750 ppm
	2-Buten	750 ppm
CAS: 115-07-1	propene	1,500 ppm
. PAC-2:		·
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	17000** ppm
CAS: 74-98-6	propane	17000** ppm
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	17000** ppm
CAS: 74-84-0	ethane	230000*** ppm
CAS: 109-66-0	pentane	33000*** ppm
	1-Buten	2900* ppm
	2-Buten	1,100 ppm
CAS: 115-07-1	propene	2800* ppm
. PAC-3:		
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	53000*** ppm
CAS: 74-98-6	propane	33000*** ppm
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	53000*** ppm
CAS: 74-84-0	ethane	400000*** ppm
CAS: 109-66-0	pentane	200000*** ppm
	1-Buten	17000*** ppm
	2-Buten	6,600 ppm
CAS: 115-07-1	propene	17000** ppm
		(Contd. on page



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#### 7 Handling and storage

Handling:

. Precautions for safe handling Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

. Information about protection

against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

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

Conditions for safe storage, including any incompatibilities

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Prevent any seepage into the ground.

. Information about storage in one

common storage facility:

Store away from foodstuffs. Store away from oxidizing agents.

Further information about storage

conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight. 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

. Specific end use(s)

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

CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

REL Long-term value: 1900 mg/m³, 800 ppm

TLV Short-term value: 1000 ppm

(EX)

CAS: 74-98-6 propane

PEL Long-term value: 1800 mg/m³, 1000 ppm REL Long-term value: 1800 mg/m³, 1000 ppm

TLV see Appendix F Minimal oxygen content (D, EX)

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

and the degradation

. Exposure controls

. Personal protective equipment: . General protective and hygienic

measures:

Wash hands before breaks and at the end of work. Use suitable respiratory protective device in case of insufficient ventilation. Breathing equipment:

. Protection of hands: 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

. 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.

The exact break through time has to be found out by the manufacturer of the protective

gloves and has to be observed. Tightly sealed goggles

. Eye protection:

#### 9 Physical and chemical properties

. Penetration time of glove material

#### . Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Aerosol White Color: Odor: Characteristic Odor threshold: Not determined.

pH-value at 20 °C (68 °F):

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. Change in condition Boiling point/Boiling range:	-44.5 °C (-48.1 °F)
. Flash point:	-97 °C (-142.6 °F)
. Flammability (solid, gaseous):	Not applicable.
. Ignition temperature:	230 °C (446 °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: Upper:	1.5 Vol % 10.9 Vol %
. Vapor pressure at 20 °C (68 °F):	8,300 hPa (6.200 mm Hg)
. Density at 20 °C (68 °F): . Relative density . Vapor density . Evaporation rate	0.7071 g/cm³ (5.9007 lbs/gal) Not determined. Not determined. Not applicable.
. Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
. Partition coefficient (n-octanol/wate	er): Not determined.
. Viscosity: Dynamic:	Not determined.
. Solvent content: Organic solvents: VOC content: VOC (EU) (%)	58.6 % 59.34 % 59.5 %
Solids content:	40.5 %
. Other information	No further relevant information available.

# 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
 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

Hazardous decomposition

**products:** No dangerous decomposition products known.

## 11 Toxicological information

. Information on toxicological effects

. Acute toxicity:

. Primary irritant effect:

. on the skin:
. on the eye:
. Irritating effect.
. on the eye:

. Sensitization: No sensitizing effects known.

. Additional toxicological information:

. Carcinogenic categories

. IARC (International Agency for Research on Cancer)

CAS: 115-07-1 propene

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. NTP (National Toxicology Program)

None of the ingredients is listed.

. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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### 12 Ecological information

**Toxicity** 

. Aquatic toxicity:

CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

EC50 (96h) 7.71 mg/l (Algae)

LC50 (96h) 27.98 mg/l (Fisch)

CAS: 74-98-6 propane

EC50 (96h) 7.71 mg/l (Algae) LC50 (96h) 27.98 mg/l (Fisch)

CAS: 75-28-5 isobutane (containing ≤ 0,1 % butadiene (106-99-0))

EC50 (96h) 7.71 mg/l (Algae) LC50 (96h) 27.98 mg/l (Fisch)

CAS: 74-84-0 ethane

EC50 (96h) 7.71 mg/l (Algae) LC50 (96h) 27.98 mg/l (Fisch)

Persistence and degradability Heavily biodegradable

Behavior in environmental systems:

Bioaccumulative potential May be accumulated in organism Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (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.

. Results of PBT and vPvB assessment

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

. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

. Waste treatment methods

. Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach

sewage system.

Uncleaned packagings:

Disposal must be made according to official regulations. . Recommendation:

#### 14 Transport information

**UN-Number** 

DOT, ADR, IMDG, IATA UN1950

UN proper shipping name

. DOT Aerosols, flammable . ADR 1950 AEROSOLS . IMDG **AEROSOLS** 

AEROSOLS, flammable . IATA

. Transport hazard class(es)

. DOT



2.1 Gases Class Label

. ADR



2 5F Gases Class Label

. IMDG, IATA



Class 2.1 Gases

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. Label	2.1	
. <b>Packing group</b> . DOT, ADR, IMDG, IATA	Void	
. Environmental hazards:	Not applicable.	
Special precautions for user     Hazard identification number (Kemler code):     EMS Number:     Stowage Code      Segregation Code	Warning: Gases	
. Transport in bulk according to Annex II of MA and the IBC Code	RPOL73/78 Not applicable.	
. Transport/Additional information:		
. ADR . Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
. IMDG . Limited quantities (LQ) . Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
. UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific

for the substance or mixture No further relevant information available

. Sara
. Section 355 (extremely hazardous substances):
None of the ingredients is listed.
. Section 313 (Specific toxic chemical listings):
CAS: 115-07-1 propene
. TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
. Hazardous Air Pollutants
None of the ingredients is listed.
. Proposition 65
. Chemicals known to cause cancer:
None of the ingredients is listed.
. 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.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value) CAS: 115-07-1 propene

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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). (Contd. on page 7)

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(Contd. of page 6) . Hazard pictograms

Signal word Danger

Extremely flammable aerosol. . Hazard statements

Contains gas under pressure; may explode if heated.

. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

#### 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: Environment protection department.

Contact:

Date of preparation / last revision

01/13/2023

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods . Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
PBT: Persistent, Bioaccumulative and Toxic
VPVB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Gases 1: Flammable gases – Category 1
Flammable Aerosols 1: Aerosols – Category 1
Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas

. \* Data compared to the previous version altered.