

Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/13/2023

Reviewed on 01/13/2023

1 Identification

Product identifier

- Trade name: **ATTBLIME - AB24**
- Application of the substance / the mixture
Coating material
Flattening agent, Matting agent

Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Graichen
Produktions- und Vertriebs-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: Environment protection department
Medizinische Notfallouskunft bei Vergiftungen:
- Emergency telephone number: Advice center for poisoning in Mainz Tel: +49(0)6131/19240 Poison information: +49(0)700/ GIFTINFO
During office hours: +49(0)6251/73103
Out of Office hours: +49(0)172/7478476
USA / CAN : 800-424-9300 (available 24 hrs)

2 Hazard identification

Classification of the substance or mixture

- Flammable Aerosols - Category 1 H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
- Gases Under Pressure - Compressed Gas H280 Contains gas under pressure; may explode if heated.

Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
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)
- Health = 0
Fire = 4
Reactivity = 3



3 Composition/Information on ingredients

Chemical characterization: Mixtures

- Description: Active substance with propellant

Dangerous components:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Flammable Gases - Category 1, H220; ⚠ Gases Under Pressure - Compressed Gas, H280	30 – 60% w/w
CAS: 74-98-6	propane ⚠ Flammable Gases - Category 1, H220; ⚠ Gases Under Pressure - Compressed Gas, H280	10 – 30% w/w

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

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- | | |
|--|---|
| . After swallowing: | Seek immediate medical advice.
A person vomiting while lying on their back should be turned onto their side. |
| . 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. |
| . For safety reasons unsuitable extinguishing agents: | Water in the full ray |
| . Special hazards arising from the substance or mixture | Can form explosive gas-air mixtures. |
| . Advice for firefighters | |
| . Protective equipment: | 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 equipment.
See Section 13 for disposal information. |

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. |
| . 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. |
|--|------------------------------|

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Control parameters

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

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

EL	STEL: 1000 ppm EX
EV	TWA: 800 ppm revoked as of 01/01/18

CAS: 74-98-6 propane

EL	Simple asphyxiant; EX
EV	TWA: 1,000 ppm revoked as of 01/01/18

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

Exposure controls

- . Personal protective equipment:
- . General protective and hygienic measures:
- . Breathing equipment:
- . Protection of hands:

Wash hands before breaks and at the end of work.

Use suitable respiratory protective device in case of insufficient ventilation.

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

9 Physical and chemical properties**Information on basic physical and chemical properties**

. General Information

. Appearance:

Form: Aerosol

Color: White

. Odor: Characteristic

. Odor threshold: Not determined.

. pH-value at 20 °C (68 °F): 7

. 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: 1.5 Vol %

Upper: 10.9 Vol %

. Vapor pressure at 20 °C (68 °F): 8,300 hPa (6.200 mm Hg)

. Density at 20 °C (68 °F): 0.7071 g/cm³ (5.9007 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: Not determined.

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. Solvent content:	
Organic solvents:	58.6 %
VOC (EU) (%)	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** No further relevant information available.
- . **Incompatible materials:** 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: No irritant effect.
 - . on the eye: Irritating effect.
- . Sensitization: No sensitizing effects known.
- . Additional toxicological information:
- . Carcinogenic categories

. IARC (International Agency for Research on Cancer)	
CAS: 115-07-1 propene	3
. NTP (National Toxicology Program)	
None of the ingredients is listed.	

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.

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

14 Transport information

. UN-Number	UN1950
. DOT/TDG, ADR, IMDG, IATA	
. UN proper shipping name	Aerosols, flammable
. DOT/TDG	1950 Aerosols
. ADR	AEROSOLS
. IMDG	AEROSOLS, flammable
. IATA	
. Transport hazard class(es)	
. DOT/TDG (Transport dangerous goods):	
	
. Class	2.1 Gases
. Label	2.1
. ADR	
	
. Class	2.5F Gases
. Label	2.1
. IMDG, IATA	
	
. Class	2.1 Gases
. Label	2.1
. Packing group	Void
. DOT/TDG, ADR, IMDG, IATA	
. Environmental hazards:	Not applicable.
. Special precautions for user	Warning: Gases
. Hazard identification number (Kemler code):	-
. EMS Number:	F-D,S-U
. Stowage 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.
. Segregation Code	
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	
. ADR	
. Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
. IMDG	
. Limited quantities (LQ)	1L

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. Excepted quantities (EQ)	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.
. MAK (German Maximum Workplace Concentration)	None of the ingredients is listed.
. Canadian substance listings:	
. Canadian Domestic Substances List (DSL)	
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))
CAS: 74-98-6	propane
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))
CAS: 74-84-0	ethane
CAS: 109-66-0	pentane
	1-Buten
	2-Buten
CAS: 115-07-1	propene
. Canadian Non-Domestic Substances List (NDSL)	
CAS: 294-62-2	Cyclododecan
. Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
. Canadian Ingredient Disclosure list (limit 1%)	
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))

- . GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- . 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
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.
- . **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:** Environment protection department.
- . **Contact:**
- . Date of the latest revision of the safety data sheet 01/13/2023
- . 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)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
- . * Data compared to the previous version altered.