

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2023

Version number 2202 (replaces version 2201)

Revision: 13.01.2023

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

1.1 Product identifier

Trade name: **ATTBLIME - AB24**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use: SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 Product category: PC9a Coatings and paints, thinners, paint removers
 Process category: PROC5 Mixing or blending in batch processes
 Environmental release category: ERC2 Formulation into mixture
 Application of the substance / the mixture: Coating material
 Flattening agent, Matting agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Manufacturer
 Graichen Produktions- und Vertriebs-GmbH
 Darmstädter Str. 127 - 129
 D-64625 Bensheim
 Tel.: +49(0)6251/73103
 Fax: +49(0)6251/77901
 e-mail: ehs@graichen-bensheim.de
 homepage: http://www.graichen.net

Further information obtainable from:

Environment protection department
 Medizinische Notfallauskunft bei Vergiftungen:

1.4 Emergency telephone number:

Advice centre for poisoning in Mainz Tel: +49(0)6131/19240 Poison information: +49(0)700/GIFTINFO
 Members of the public seeking specific information on poisons should contact:
 In England and Wales: NHS 111 - dial 111
 In Scotland: NHS 24 - dial 111
 During office hours: +49(0)6251/73103
 Out of office hours: +49(0)172/7478476

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
 Hazard pictograms

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



GHS02

Signal word

Danger

Hazard statements

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

Precautionary statements

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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Active substance with propellant

Dangerous components:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	25 – 50%
EINECS: 203-448-7	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 74-98-6	propane	10 – 25%
EINECS: 200-827-9	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	

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

SECTION 4: First aid measures

4.1 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 respiratory 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 laying on their back should be turned onto their side.
- . **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.

SECTION 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.
For safety reasons unsuitable extinguishing agents: Water in the full ray
- . **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- . **5.3 Advice for firefighters**
Protective equipment: Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
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.
- . Additional information

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
- . **6.2 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.
- . **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- . **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** Open and handle receptacle with care.
Ensure good ventilation/exhaustion at the workplace.
- . Information about fire - and explosion protection: 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.
Do not spray onto a naked flame or any incandescent material.
- . **7.2 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 pressurised containers.
Prevent any seepage into the ground.
- . Information about storage in one common storage facility: Store away from foodstuffs.
Store away from oxidising agents.
- . Further information about storage conditions: Keep container tightly sealed.
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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- . Ingredients with limit values that require monitoring at the workplace:

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

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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- . Additional information: The lists valid during the making were used as basis.

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8.2 Exposure controls

- . Appropriate engineering controls No further data; see item 7.
- . Individual protection measures, such as personal protective equipment
- . General protective and hygienic measures: Wash hands before breaks and at the end of work.
- . Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- . Hand protection 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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- . General Information
- . Colour: White
- . Odour: Characteristic
- . Odour threshold: Not determined.
- . Boiling point or initial boiling point and boiling range -44.5 °C
- . Flammability Not applicable.
- . Lower and upper explosion limit
- . Lower: 1.5 Vol % (CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0)))
- . Upper: 10.9 Vol % (CAS: 74-98-6 propane)
- . Flash point: -97 °C
- . Ignition temperature: 230 °C (CAS: 294-62-2 Cyclododecan)
- . Decomposition temperature: Not determined.
- . pH at 20 °C 7
- . Viscosity:
- . Dynamic: Not determined.
- . Solubility
- . water: Not miscible or difficult to mix.
- . Partition coefficient n-octanol/water (log value) Not determined.
- . Vapour pressure at 20 °C: 8,300 hPa (CAS: 74-98-6 propane)
- . Density and/or relative density
- . Density at 20 °C: 0.7071 g/cm³
- . Relative density Not determined.
- . Vapour density Not determined.

9.2 Other information

- . Appearance:
- . Form: Aerosol
- . Important information on protection of health and environment, and on safety.
- . Auto-ignition temperature: Product is not selfigniting.
- . Explosive properties: Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
- . Solvent content:
- . Organic solvents: 58.6 %
- . VOC (EC) 420.5 g/l
- . VOC (EU) (%) 59.5 %
- . Solids content: 40.5 %
- . Change in condition
- . Evaporation rate Not applicable.

Information with regard to physical hazard classes

- . Explosives Void
- . Flammable gases Void
- . Aerosols Extremely flammable aerosol. Pressurised container: May burst if heated.

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. Oxidising gases	Void
. Gases under pressure	
. Flammable liquids	Void
. Flammable solids	Void
. Self-reactive substances and mixtures	Void
. Pyrophoric liquids	Void
. Pyrophoric solids	Void
. Self-heating substances and mixtures	Void
. Substances and mixtures, which emit flammable gases in contact with water	Void
. Oxidising liquids	Void
. Oxidising solids	Void
. Organic peroxides	Void
. Corrosive to metals	Void
. Desensitised explosives	Void

SECTION 10: Stability and reactivity

. 10.1 Reactivity	No further relevant information available.
. 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:	Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol

SECTION 11: Toxicological information

. 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
. Acute toxicity	Based on available data, the classification criteria are not met.
. Skin corrosion/irritation	Based on available data, the classification criteria are not met.
. Serious eye damage/irritation	Based on available data, the classification criteria are not met.
. Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
. Germ cell mutagenicity	Based on available data, the classification criteria are not met.
. Carcinogenicity	Based on available data, the classification criteria are not met.
. Reproductive toxicity	Based on available data, the classification criteria are not met.
. STOT-single exposure	Based on available data, the classification criteria are not met.
. STOT-repeated exposure	Based on available data, the classification criteria are not met.
. Aspiration hazard	Based on available data, the classification criteria are not met.

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11.2 Information on other hazards

- Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

CAS: 106-97-8 butane (containing $\leq 0,1$ % 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 $\leq 0,1$ % 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)

12.2 Persistence and degradability

Heavily biodegradable

12.3 Bioaccumulative potential

May be accumulated in organism

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

- PBT:

Not applicable.

- vPvB:

Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

- 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.

SECTION 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.

- European waste catalogue

HP3 Flammable

- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

- ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

- ADR

1950 AEROSOLS

- IMDG

AEROSOLS

- IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

- ADR



- Class

2 5F Gases.

- Label

2.1

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. IMDG, IATA 	
. Class	2.1 Gases.
. Label	2.1
. 14.4 Packing group . ADR, IMDG, IATA	Void
. 14.5 Environmental hazards:	Not applicable.
. 14.6 Special precautions for user . Hazard identification number (Kemler code): . EMS Number: . Stowage Code	Warning: Gases. - F-D,S-U 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	
. 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
. Transport/Additional information:	
. ADR	
. 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
. UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information**. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

. Directive 2012/18/EU	
. Named dangerous substances - ANNEX I	None of the ingredients is listed.
. Seveso category	P3a FLAMMABLE AEROSOLS
. Qualifying quantity (tonnes) for the application of lower-tier requirements	150 t
. Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t

. 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 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.
. Abbreviations and acronyms:	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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A

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. * Data compared to the previous version altered.

Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas

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