

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 13.01.2023

Version number 1

Revision: 13.01.2023

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

##### 1.1 Product identifier

Trade name: **ATTBLIME ABX**

##### 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

Aerosol  
Matting agent

##### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Manufacturer  
Graichen Produktions- und Vertiebs-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:

Product Safety Department

##### 1.4 Emergency telephone number:

Graichen: During business hours :+49(0)6251 7707880  
Graichen: Outside business hours:+49(0)172 7478476  
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

#### 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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

##### 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.

H412 Harmful to aquatic life with long lasting effects.

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.

P273 Avoid release to the environment.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

##### 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 EINECS: 203-448-7	butane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	25 – 50%
CAS: 287-92-3 EINECS: 206-016-6	cyclopentane ⚠ Flam. Liq. 2, H225; Aquatic Chronic 3, H412	10 – 25%
CAS: 74-98-6 EINECS: 200-827-9	propane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	10 – 25%

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CAS: 64-17-5 EINECS: 200-578-6	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	2.5 – 10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	< 2.5%
. 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.
- . After skin contact: Wash with water and soap and rinse thoroughly
- . After eye contact: Rinse opened eye for several minutes under running water.
- . After swallowing: Seek immediate medical advice.

#### 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.

#### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### 5.3 Advice for firefighters

- . Protective equipment:

No special measures required.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

#### 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.

#### 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

#### 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.

- . 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.

- . Information about storage in one common storage facility:
- . Further information about storage conditions:

Store away from foodstuffs.  
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 ≤ 0,1 % butadiene (106-99-0))

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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##### CAS: 64-17-5 ethanol

WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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. DNELs		
CAS: 64-17-5 ethanol		
Oral	DNEL Long-term - systemic effects	87 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	206 mg/kg bw/day (general (Allgemeinbevölkerung))
		343 mg/kg bw/day (Workers (Arbeitnehmer))
Inhalative	DNEL Acute - local effects	950 mg/m <sup>3</sup> (general (Allgemeinbevölkerung))
		1,900 mg/m <sup>3</sup> (Workers (Arbeitnehmer))
	DNEL Long-term - systemic effects	114 mg/m <sup>3</sup> (general (Allgemeinbevölkerung))
		950 mg/m <sup>3</sup> (Workers (Arbeitnehmer))

. PNECs	
CAS: 64-17-5 ethanol	
PNEC Soil (Boden)	0.63 mg/kg
PNEC fresh water sediment (Süßwassersediment)	3.6 mg/kg
PNEC fresh water (Süßwasser)	0.96 mg/l
PNEC marine water sediment	2.9 mg/kg
PNEC Marine water	0.79 mg/l
PNEC-STP	580 mg/l

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

#### . 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
- . Physical state: Aerosol
- . Colour: White
- . Odour: Characteristic
- . Odour threshold: Not determined.
- . Boiling point or initial boiling point and boiling range: -44.5 °C (CAS: 74-98-6 propane)
- . 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 (CAS: 74-98-6 propane)
- . Ignition temperature: 363 °C (CAS: 64-17-5 ethanol)
- . Decomposition temperature: Not determined.
- . pH: Not determined.
- . Viscosity:
- . Dynamic: Not determined.
- . Solubility
- . water: Fully miscible.
- . 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: 0.6978 g/cm<sup>3</sup>
- . Relative density: Not determined.
- . Vapour density: Not determined.

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**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: 91.8 %
- . VOC (EU) (%):
- . Solids content: 7.0 %
- . 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.
- . Oxidising gases: Void
- . Gases under pressure: Void
- . 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.

- . LD/LC50 values relevant for classification:

**CAS: 64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	> 2,000 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4h	51 mg/l (rat) (Acute Inhalation Toxicity)

- . 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 ≤ 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: 64-17-5 ethanol**

EC50	5,800 mg/l (Paramecium caudatum)
EC50 (24h)	858 mg/l (Artemia salina)
EC50 (7d)	> 5,000 mg/l (Algae) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
EC50 (48h)	9,268 – 14,221 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
EC50 (72h)	275 mg/l (Chlorella vulgaris) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	11,200 mg/l (Salmo gairdneri)
LC50 (48h)	5,012 mg/l (Ceriodaphnia dubia (Wasserfloh))
LC50 (96h)	13,000 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
	14,200 mg/l (Pimephales promelas (fettköpf. Ellritze))
NOEC (10d)	2 mg/l (Daphnie)

**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)

**12.2 Persistence and degradability****CAS: 64-17-5 ethanol**

Biodegradability	80 – 85 % (aerob) (Biodegradability)
Biodegradability 28d	97 % (Ready Biodegradability)

**12.3 Bioaccumulative potential****CAS: 64-17-5 ethanol**

Log Pow	0.66
Log Kow	
BCF	

- 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**

- Ecotoxicological effects:

**CAS: 64-17-5 ethanol**

EC10 (72h)	11.5 mg/l (Paramecium caudatum) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
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- Remark: Harmful to fish  
Additional ecological information:  
General notes: Harmful to aquatic organisms  
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
HP14	Ecotoxic

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

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. Recommended cleansing agents: Water, if necessary together with cleansing agents.

**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

. 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: 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.

**. 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

. Seveso category

None of the ingredients is listed.  
P3a FLAMMABLE AEROSOLS

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- . 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)
  - DNEL: Derived No-Effect Level (UK REACH)
  - PNEC: Predicted No-Effect Concentration (UK REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Gas 1A: Flammable gases – Category 1A
  - Aerosol 1: Aerosols – Category 1
  - Press. Gas (Comp.): Gases under pressure – Compressed gas
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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