

# 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 ABX**  
 Application of the substance / the mixture: Aerosol  
 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: Product Safety Department  
 Emergency telephone number: Graichen: During business hours :+49(0)6251 7707880  
 Graichen: Outside business hours: +49(0)172 7478476  
 Advice center for poisoning in Mainz Tel: +49(0)6131/19240 Poison information: +49(0) 700/GIFTINFO  
 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.
Eye Irritation - Category 2A	H319	Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure - Category 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

#### Label elements

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

Hazard pictograms:



GHS02 GHS04 GHS07

Signal word: Danger

Hazard-determining components of labeling:

Hazard statements:

propan-2-ol  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes serious eye irritation.  
 May cause drowsiness or dizziness.  
 Harmful to aquatic life with long lasting effects.

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.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a poison center/doctor if you feel unwell.  
 If eye irritation persists: Get medical advice/attention.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Protect from sunlight. Store in a well-ventilated place.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Information pertaining to particular dangers for man and environment:

NFPA ratings (scale 0 - 4)



Health = 2  
 Fire = 4  
 Reactivity = 0

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HMIS-ratings (scale 0 - 4)

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

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### 3 Composition/Information on ingredients

**Chemical characterization: Mixtures**

Description: Active substance with propellant

**Dangerous components:**

CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (106-99-0)) ⚠ Flammable Gases - Category 1, H220; ⚠ Gases Under Pressure - Compressed Gas, H280	15 – 40% w/w
CAS: 287-92-3	cyclopentane ⚠ Flammable Liquids - Category 2, H225; Aquatic Chronic 3, H412	10 – 30% w/w
CAS: 74-98-6	propane ⚠ Flammable Gases - Category 1, H220; ⚠ Gases Under Pressure - Compressed Gas, H280	10 – 30% w/w
CAS: 67-63-0	propan-2-ol ⚠ Flammable Liquids - Category 2, H225; ⚠ Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	5 – 10% w/w
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0)) ⚠ Flammable Gases - Category 1, H220; ⚠ Gases Under Pressure - Compressed Gas, H280	0.5 – 1.5% 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.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	Seek immediate medical advice.
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:	CO <sub>2</sub> , 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**

Environmental precautions:	Keep away from ignition sources 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.
Methods and material for containment and cleaning up:	Ensure adequate ventilation.
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.
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.

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- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>. Information about storage in one common storage facility:</li> <li>. Further information about storage conditions:</li> <li>. <b>Specific end use(s)</b></li> </ul> | <p>Observe official regulations on storing packagings with pressurized containers.</p> <p>Store away from foodstuffs.</p> <p>Keep receptacle tightly sealed.<br/>Store in cool, dry conditions in well sealed receptacles.<br/>Protect from heat and direct sunlight.</p> <p>No further relevant information available.</p> |
|--|---|

### 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:

#### 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: 287-92-3 cyclopentane

EL	TWA: 600 ppm EX
EV	TWA: 1,720 mg/m <sup>3</sup> , 600 ppm

#### CAS: 74-98-6 propane

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

#### CAS: 67-63-0 propan-2-ol

EL	STEL: 400 ppm TWA: 200 ppm
EV	STEL: 400 ppm TWA: 200 ppm

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

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

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>. Additional information:</li> <li>. <b>Exposure controls</b></li> <li>. Personal protective equipment:</li> <li>. General protective and hygienic measures:</li> <li>. Breathing equipment:</li> <li>. Protection of hands:</li> <li>. Material of gloves</li> <li>. Penetration time of glove material</li> <li>. Eye protection:</li> </ul> | <p>The lists that were valid during the creation were used as basis.</p> <p>Wash hands before breaks and at the end of work.</p> <p>Use suitable respiratory protective device in case of insufficient ventilation.</p> <p>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</p> <p>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</p> <p>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.</p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p>Tightly sealed goggles</p> |
|---|--|

### 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: Not determined. |                 |

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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:	363 °C (685.4 °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):	0.6978 g/cm <sup>3</sup> (5.8231 lbs/gal)
. Relative density	Not determined.
. Vapor density	Not determined.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with Water:	Fully miscible.
. Partition coefficient (n-octanol/water):	Not determined.
. Viscosity: Dynamic:	Not determined.
. Solvent content: Organic solvents:	91.8 %
Solids content:	7.0 %
. <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

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

### 11 Toxicological information

#### . Information on toxicological effects

. Acute toxicity:

. LD/LC50 values that are relevant for classification:

#### CAS: 67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	12,870 mg/kg (rab) (Acute Dermal Toxicity)
Inhalative	LC50/4h	72.6 mg/l (rat)
	LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)

. Primary irritant effect:

. on the skin:

#### CAS: 67-63-0 propan-2-ol

Ätz-/Reizwirkung auf die Haut (4h)	(rabbit) (Acute Dermal Irritation/Corrosion) leicht reizend
------------------------------------	--

. on the eye:

Irritating effect.

#### CAS: 67-63-0 propan-2-ol

Schwere Augenschädigung/-reizung	(rabbit) (Acute Eye Irritation/Corrosion) mäßig reizend
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. Sensitization:

No sensitizing effects known.

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. Additional toxicological information:	
<b>CAS: 67-63-0 propan-2-ol</b>	
NOAEL, maternal	400 mg/kg KG/day (rat)
NOAEL, parents	500 mg/kg KG/day (Two-Generation Reproduction Toxicity)
	853 mg/kg KG/day (rat) (One-Generation Reproduction Toxicity Study)
. Carcinogenic categories	
. IARC (International Agency for Research on Cancer)	
CAS: 67-63-0	propan-2-ol
	3
. NTP (National Toxicology Program)	
None of the ingredients is listed.	
. Reproductive toxicity	
<b>CAS: 67-63-0 propan-2-ol</b>	
Oral NOAEL, Parents	500 mg/kg (rat) (Two-Generation Reproduction Toxicity)
. Specific target organ toxicity - repeated exposure	
<b>CAS: 67-63-0 propan-2-ol</b>	
STOT RE	mg/kg/day (rat)
	at least 104 w 6h/d, 5d/w

## 12 Ecological information

### . Toxicity

. Aquatic toxicity:	
<b>CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))</b>	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)
<b>CAS: 74-98-6 propane</b>	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)
<b>CAS: 67-63-0 propan-2-ol</b>	
EC50	> 100 mg/l (Bacteria)
EC50 (48h)	> 100 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (72h)	> 100 mg/l (Scenedesmus subspicatus)
EC50 (96h)	> 1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	9,714 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
	9,640 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LC50 (48h)	> 100 mg/l (Leuciscus idus (Goldorfe))
LC50 (96h)	> 9,640 – 10,000 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LOEC (8d)	1,000 mg/l (Algae)
EC50 (3h)	> 1,000 mg/l (activated sludge) (Mikroorganismen/Wirkung auf Belebtschlamm)
NOEC (21d)	30 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia magna Reproduction Test)
NOEC (96h)	1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
<b>CAS: 75-28-5 isobutane (containing ≤ 0,1 % butadiene (106-99-0))</b>	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)

### . Persistence and degradability

<b>CAS: 67-63-0 propan-2-ol</b>	
Biodegradability 30d	70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))

### . Behavior in environmental systems:

. Bioaccumulative potential	
<b>CAS: 67-63-0 propan-2-ol</b>	
Log Pow	0.05

. Mobility in soil No further relevant information available.

### . Ecotoxicological effects:

. Remark: Harmful to fish

### . Additional ecological information:

. General notes: Harmful to aquatic organisms  
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.

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. **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:**

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

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

**14 Transport information**

. **UN-Number**

. DOT/TDG, ADR, IMDG, IATA UN1950

. **UN proper shipping name**

. DOT/TDG Aerosols, flammable  
. ADR 1950 Aerosols  
. IMDG AEROSOLS  
. IATA AEROSOLS, flammable

. **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**

. DOT/TDG, ADR, IMDG, IATA Void

. **Environmental hazards:** Not applicable.

. **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.

. **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

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. IMDG	1L
. Limited quantities (LQ)	Code: E0
. Excepted quantities (EQ)	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: 67-63-0   propan-2-ol
. 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)	All ingredients are listed.
. Canadian Non-Domestic Substances List (NDSL)	None of the ingredients is listed.
. 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))
	CAS: 287-92-3   cyclopentane
	CAS: 67-63-0   propan-2-ol

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

. Hazard pictograms   
GHS02 GHS04 GHS07

. Signal word Danger

. Hazard-determining components of labeling:

. Hazard statements  
propan-2-ol  
Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Harmful to aquatic life with long lasting effects.

. 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.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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**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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
- . \* Data compared to the previous version altered.

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