

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 - AB6**

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: Flatting 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:

Product Safety Department
 Emergency medical information in case of poisoning:

1.4 Emergency telephone number:

During and outside office hours:
 Phone.: +49(0)2774/6153
 Poison Information Centre Mainz - 24h -
 Tel.: +49 (0) 6131 19240
 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.

Eye Irrit. 2 H319 Causes serious eye irritation.

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 GHS07

Signal word

Danger

Hazard statements

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

Precautionary statements

H319 Causes serious eye irritation.
 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.
 P264 Wash thoroughly after handling.
 P280 Wear eye protection / face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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 butane (containing ≤ 0,1 % butadiene (106-99-0))
 EINECS: 203-448-7 Flam. Gas 1A, H220; Press. Gas (Comp.), H280

25 – 50%

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CAS: 74-98-6 EINECS: 200-827-9	propane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	(Contd. of page 1) 10 – 25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10 – 25%
CAS: 287-92-3 EINECS: 206-016-6	cyclopentane ⚠ Flam. Liq. 2, H225; Aquatic Chronic 3, H412	2.5 – 10%
CAS: 291-64-5 EINECS: 206-030-2	cycloheptane ⚠ Flam. Liq. 2, H225	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 acidic soap.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
Keep away from ignition sources.

6.2 Environmental precautions:

Keep contaminated washing water and dispose of appropriately.
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:

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.

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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/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

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

WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

DNELs

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

Oral	DNEL Long-term - systemic effects	26 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	319 mg/kg bw/day (general (Allgemeinbevölkerung)) 888 mg/kg bw/day (Workers (Arbeitnehmer))
Inhalative	DNEL Long-term - systemic effects	89 mg/m ³ (general (Allgemeinbevölkerung)) 500 mg/m ³ (employee / Arbeitnehmer) 500 mg/m ³ (Workers (Arbeitnehmer))

PNECs

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

PNEC Soil (Boden)	28 mg/kg
PNEC fresh water sediment (Süßwassersediment)	552 mg/kg
PNEC fresh water (Süßwasser)	140.9 mg/l
PNEC marine water sediment	552 mg/kg
PNEC Marine water	140.9 mg/l
PNEC-STP	2,251 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:

Not required.

Hand protection

Protective gloves

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

Value for the permeation: Level $\leq 0,7$ mm 480min (8h) EN374

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

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Aerosol

Colour:

Whitish

Odour:

Characteristic

Odour threshold:

Not determined.

Melting point/freezing point:

It is technically not possible to determine a value.

Prior to or during melting sublimation occurs.

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 $\leq 0,1$ % butadiene (106-99-0)))

Upper:

12 Vol % (CAS: 67-63-0 propan-2-ol)

Flash point:

-97 °C (CAS: 67-63-0 propan-2-ol)

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. Ignition temperature:	230 °C (CAS: 294-62-2 Cyclododecan)
. Decomposition temperature:	Not determined.
. pH at 20 °C	6.75
. Viscosity:	
. Dynamic:	Not determined.
. Solubility	
. water:	Insoluble.
. 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:	0.672 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:	86.6 %
. VOC (EC)	591.4 g/l
. VOC (EU) (%)	88.0 %
. Solids content:	13.4 %
. 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	

. LD/LC50 values 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)

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LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)
. Skin corrosion/irritation	
CAS: 67-63-0 propan-2-ol	
Ätz-/Reizwirkung auf die Haut (4h)	(rabbit) (Acute Dermal Irritation/Corrosion)
. Serious eye damage/irritation Causes serious eye irritation.	
CAS: 67-63-0 propan-2-ol	
Schwere Augenschädigung/-reizung	(rabbit) (Acute Eye Irritation/Corrosion)
. Reproductive toxicity	
CAS: 67-63-0 propan-2-ol	
Oral NOAEL, Parents	500 mg/kg (rat) (Two-Generation Reproduction Toxicity)
. STOT-repeated exposure	
CAS: 67-63-0 propan-2-ol	
STOT RE	mg/kg/day (rat)
. Additional toxicological information:	
CAS: 67-63-0 propan-2-ol	
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)
. 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: 67-63-0 propan-2-ol

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)

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: 67-63-0 propan-2-ol

Biodegradability 30d 70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))

. 12.3 Bioaccumulative potential

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

Log Pow 0.05

. 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.

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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.

- . 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
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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	
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. Class	2.1 Gases.
. Label	2.1

14.4 Packing group

. ADR, IMDG, IATA	Void
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. 14.5 Environmental hazards:	Not applicable.
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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.
. Segregation Code	

14.7 Maritime transport in bulk according to IMO instruments

. Transport/Additional information:	Not applicable.
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. ADR	
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. Limited quantities (LQ)	1L
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. Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
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. Transport category	2
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. Tunnel restriction code	D
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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

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
- . Qualifying quantity (tonnes) for the application of lower-tier requirements
- . Qualifying quantity (tonnes) for the application of upper-tier requirements

None of the ingredients is listed.
P3a FLAMMABLE AEROSOLS

150 t

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)
 - 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
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.