

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-G**
- 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: Flattening agent, 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
Emergency medical information in case of poisoning:

1.4 Emergency telephone number:

Poison Information Centre Mainz - 24h -
Tel.: +49 (0) 6131 19240
Graichen: During business hours :+49(0)6251 7707880
Graichen: Outside business hours:+49(0)172 7478476
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
- Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms:



GHS02 GHS07

- Signal word: Danger

- Hazard-determining components of labelling:

- Hazard statements: propan-2-ol
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment: Not applicable.
- PBT: Not applicable.

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. vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

. Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	50 – 100%
CAS: 287-92-3 EINECS: 206-016-6	cyclopentane	⚠ Flam. Liq. 2, H225; Aquatic Chronic 3, H412	25 – 50%

. 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: Generally the product does not irritate the skin.
- . After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, 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.
- . For safety reasons unsuitable extinguishing agents: Full jet water

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**

Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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** No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.

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: 67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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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:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

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

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

Fluid

Colour:

Colourless

Odour:

Alcohol-like

Odour threshold:

Not determined.

Boiling point or initial boiling point and boiling range

49.5 °C (CAS: 287-92-3 cyclopentane)

Flammability

Not applicable.

Lower and upper explosion limit

Lower:

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

Upper:

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

Flash point:

-20 °C (CAS: 287-92-3 cyclopentane)

Ignition temperature:

230 °C (CAS: 294-62-2 Cyclododecan)

Decomposition temperature:

Not determined.

pH at 20 °C

6.75

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. 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:	530 hPa (CAS: 287-92-3 cyclopentane)
. Density and/or relative density	
. Density at 20 °C:	0.7811 g/cm ³
. Relative density	Not determined.
. Vapour density	Not determined.

9.2 Other information

. Appearance:	
. Form:	Fluid
. Important information on protection of health and environment, and on safety.	
. Auto-ignition temperature:	Product is not selfigniting.
. Explosive properties:	Not determined.
. Solvent content:	
. Organic solvents:	82.5 %
. VOC (EC)	644.4 g/l
. VOC (EU) (%)	82.5 %
. Solids content:	17.5 %
. Change in condition	
. Evaporation rate	Not determined.

. Information with regard to physical hazard classes	
. Explosives	Void
. Flammable gases	Void
. Aerosols	Void
. Oxidising gases	Void
. Gases under pressure	Void
. Flammable liquids	Highly flammable liquid and vapour.
. 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
. Additional information:	As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

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)
	LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)

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. 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-single exposure May cause drowsiness or dizziness.	
. 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: 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)

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.

12.7 Other adverse effects

No further relevant information available.

. 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**

. European waste catalogue	
HP3	Flammable

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HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

- . Uncleaned packaging:
- . Recommendation: Non contaminated packagings may be treated like household garbage.

SECTION 14: Transport information

. 14.1 UN number or ID number . ADR, IMDG, IATA	UN1993
. 14.2 UN proper shipping name . ADR . IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANE, propan-2-ol) FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANE, propan-2-ol)
. 14.3 Transport hazard class(es) . ADR	
	
. Class . Label	3 (F1) Flammable liquids. 3
. IMDG, IATA	
	
. Class . Label	3 Flammable liquids. 3
. 14.4 Packing group . ADR, IMDG, IATA	II
. 14.5 Environmental hazards:	Not applicable.
. 14.6 Special precautions for user . Hazard identification number (Kemler code): . EMS Number: . Stowage Category	Warning: Flammable liquids. 33 F-E, S-E B
. 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
. Transport/Additional information:	
. ADR . Limited quantities (LQ) . Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. Transport category . Tunnel restriction code	2 D/E
. IMDG . Limited quantities (LQ) . Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANE, PROPAN-2-OL), 3, II

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.
P5c FLAMMABLE LIQUIDS
- 5,000 t
- 50,000 t

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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:
- . Abbreviations and acronyms:

Environment protection department.
 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. 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.

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