

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/06/2021

Reviewed on 09/06/2021

### 1 Identification

**Product identifier**

- Trade name: **ATTBLIME - AB6**  
 Application of the substance / the mixture: **Flattening agent, Matting agent**

**Details of the supplier of the safety data sheet**

- Information department: **Environment protection department**  
 Emergency telephone number: **During office hours:+49(0)6251/73103**  
**Out of Office hours:+49(0)172/7478476**

### 2 Hazard(s) identification

**Classification of the substance or mixture**

- Flam. Aerosol 1 H222 Extremely flammable aerosol.  
 Press. Gas H280 Contains gas under pressure; may explode if heated.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 STOT SE 3 H336 May cause drowsiness or dizziness.

**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.

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear 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 = 3

**HMIS-ratings (scale 0 - 4)**


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

**Other hazards**

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

CAS: 294-62-2 | Cyclododecan

- vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

- Description: Active substance with propellant

**Dangerous components:**

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Press. Gas, H280	25 – 50%
CAS: 74-98-6	propane ⚠ Press. Gas, H280	10 – 25%

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CAS: 67-63-0	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	10 – 25%
CAS: 294-62-2	Cyclododecan PBT	2.5 – 10%
CAS: 287-92-3	cyclopentane ⚠ Flam. Liq. 2, H225; Aquatic Chronic 3, H412	2.5 – 10%
CAS: 291-64-5	cycloheptane ⚠ Flam. Liq. 2, H225	2.5 – 10%
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Press. Gas, H280	< 2.5%

. 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 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.   |
| . 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:                        | CO2, extinguishing 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  |
| . Special hazards arising from the substance or mixture | Carbondioxid (CO2)   |
| . Advice for firefighters                               |  |
| . Protective equipment:                                 | Wear self-contained respiratory protective device.<br>Do not inhale explosion gases or combustion gases. |

## 6 Accidental release measures

## . Personal precautions, protective equipment and emergency procedures

- |   |   |
|---|---|
| . Environmental precautions:                            | Use respiratory protective device against the effects of fumes/dust/aerosol.<br>Ensure adequate ventilation<br>Keep away from ignition sources  |
| . Methods and material for containment and cleaning up: | Keep contaminated washing water and dispose of appropriately.<br>Do not allow product to reach sewage system or any water course.<br>Inform respective authorities in case of seepage into water course or sewage system. |
| . Reference to other sections                           | Ensure adequate ventilation.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for disposal information.   |
| . Protective Action Criteria for Chemicals              |   |

## . PAC-1:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	5500* ppm
CAS: 74-98-6	propane	5500* ppm
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 287-92-3	cyclopentane	1800* ppm
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	5500* ppm
CAS: 74-84-0	ethane	65000*** ppm

## . PAC-2:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	17000** ppm
CAS: 74-98-6	propane	17000** ppm
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 287-92-3	cyclopentane	3800* ppm
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	17000** ppm
CAS: 74-84-0	ethane	230000*** ppm

## . PAC-3:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	53000*** ppm
CAS: 74-98-6	propane	33000*** ppm

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. Protection of hands:	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 protection:	Tightly sealed goggles
. Body protection:	Protective work clothing

## 9 Physical and chemical properties

### . Information on basic physical and chemical properties

## . General Information

## . Appearance:

Form:	Aerosol
Color:	Whitish
. Odor:	Characteristic
. Odor threshold:	Not determined.

. pH-value at 20 °C (68 °F): 6.75

## . 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: 230 °C (446 °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:	1.5 Vol %
Upper:	12 Vol %

. Vapor pressure at 20 °C (68 °F): 8,300 hPa (6.200 mm Hg)

. Density at 20 °C (68 °F): 0.672 g/cm<sup>3</sup> (5.6078 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:	86.6 %
VOC content:	87.93 %
VOC (EU) (%)	88.0 %

Solids content: 8.0 %

. **Other information** No further relevant information available.

## 10 Stability and reactivity

. **Reactivity** No further relevant information available.. **Chemical stability**

. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

. **Possibility of hazardous reactions**

No dangerous reactions known.

. **Conditions to avoid** No further relevant information available.. **Incompatible materials:** No further relevant information available.

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**Hazardous decomposition products:** 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)

on the eye: Irritating effect.

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

Schwere Augenschädigung/-reizung (rabbit) (Acute Eye Irritation/Corrosion)

Sensitization: No sensitizing effects known.

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)

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.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Reproductive toxicity

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

Oral | NOAEL, Parents | 500 mg/kg (rat) (Two-Generation Reproduction Toxicity)

Specific target organ toxicity - repeated exposure

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

STOT RE | mg/kg/day (rat)

### 12 Ecological information

**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)

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**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)

**. Persistence and degradability****CAS: 67-63-0 propan-2-ol**

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

**. Behavior in environmental systems:**

. Bioaccumulative potential

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

Log Pow | 0.05

. Mobility in soil No further relevant information available.

**. Additional ecological information:**

. General notes: 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:

CAS: 294-62-2 | Cyclododecan

. vPvB: Not applicable.

. 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, ADR, IMDG, IATA UN1950

**. UN proper shipping name**

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

**. Transport hazard class(es)**

. DOT



. Class	2.1
. Label	2.1

. ADR



. Class	2.5F Gases
. Label	2.1

. IMDG, IATA



. Class	2.1
. Label	2.1

**. Packing group**

. DOT, ADR, IMDG, IATA Void

**. Environmental hazards:**

Not applicable.

**. Special precautions for user**

Warning: Gases

. 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:

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. Segregation Code	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
. IMDG . Limited quantities (LQ) . Excepted quantities (EQ)	1L Code: E0 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):	
CAS: 106-97-8   butane (containing ≤ 0,1 % butadiene (106-99-0))	ACTIVE
CAS: 74-98-6   propane	ACTIVE
CAS: 67-63-0   propan-2-ol	ACTIVE
CAS: 294-62-2   Cyclododecan	ACTIVE
CAS: 287-92-3   cyclopentane	ACTIVE
CAS: 75-28-5   isobutane (containing ≤ 0,1 % butadiene (106-99-0))	ACTIVE
CAS: 74-84-0   ethane	ACTIVE
. Hazardous Air Pollutants None of the ingredients is listed.	
. Proposition 65	
. Chemicals known to cause cancer: None of the ingredients is listed.	
. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.	
. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.	
. Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
. Carcinogenic categories	
. EPA (Environmental Protection Agency) None of the ingredients is listed.	
. TLV (Threshold Limit Value) CAS: 67-63-0   propan-2-ol	
	A4
. MAK (German Maximum Workplace Concentration) None of the ingredients is listed.	
. NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	

. GHS label elements

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

. Hazard pictograms



GHS02 GHS04 GHS07

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. 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.
. Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear 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.
. <b>Chemical safety assessment:</b>	A Chemical Safety Assessment has not been carried out.

### 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.

. <b>Department issuing SDS:</b>	Environment protection department.
. <b>Contact:</b>	
. Date of preparation / last revision	09/06/2021 / 2002
. 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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Aerosol 1: Aerosols – Category 1 Press. Gas: Gases under pressure – Compressed gas Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A 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.