

## 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 AB2-G**

Article number: 5360-0634, 5360-0633

##### 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: Graichen Produktions- und Vertriebs GmbH  
 Darmstädter Str.127  
 D-64625 Bensheim  
 Tel.: +49(0)6251 / 7707880  
 Fax: +49(0)6251 / 77901  
 e-Mail: ehs@graichen-bensheim.de  
 http://www.graichen.net

Further information obtainable from:

Product Safety Department  
 Emergency medical information in case of poisoning:

##### 1.4 Emergency telephone number:

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

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 GHS07

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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.  
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
 P243 Take action to prevent static discharges.  
 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+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

PBT: Not applicable.

vPvB: Not applicable.

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

. Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6	ethanol	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	25 – 50%
CAS: 109-87-5 EINECS: 203-714-2	dimethoxymethane	⚠ Flam. Liq. 2, H225	25 – 50%
CAS: 287-92-3 EINECS: 206-016-6	cyclopentane	⚠ Flam. Liq. 2, H225; Aquatic Chronic 3, H412	10 – 25%

. 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.
- . 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: 64-17-5 ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**CAS: 109-87-5 dimethoxymethane**

WEL Short-term value: 3950 mg/m<sup>3</sup>, 1250 ppm  
Long-term value: 3160 mg/m<sup>3</sup>, 1000 ppm

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))

**CAS: 109-87-5 dimethoxymethane**

Oral	DNEL Long-term - systemic effects	18.1 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	18.1 mg/kg bw/day (general (Allgemeinbevölkerung)) 17.9 mg/kg bw/day (employee / Arbeitnehmer)
Inhalative	DNEL Long-term - systemic effects	31.5 mg/m <sup>3</sup> (general (Allgemeinbevölkerung)) 126.6 mg/m <sup>3</sup> (employee / 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

**CAS: 109-87-5 dimethoxymethane**

PNEC Soil (Boden)	4.65 mg/kg
PNEC fresh water sediment (Süßwassersediment)	13.135 mg/kg
PNEC fresh water (Süßwasser)	14.5 mg/l
PNEC marine water sediment	1.3135 mg/kg
PNEC Marine water	1.48 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

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

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

. General Information	
. Physical state	Fluid
. Colour:	Colourless
. Odour:	Mild
. Odour threshold:	Not determined.
. Boiling point or initial boiling point and boiling range	52 °C
. Flammability	Not applicable.
. Lower and upper explosion limit	
. Lower:	1.6 Vol % (CAS: 109-87-5 dimethoxymethane)
. Upper:	17.6 Vol % (CAS: 109-87-5 dimethoxymethane)
. Flash point:	-18 °C
. Ignition temperature:	365 °C
. Decomposition temperature:	Not determined.
. pH at 20 °C	6.9
. 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
. Density and/or relative density	
. Density at 20 °C:	0.802 g/cm <sup>3</sup>
. 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:	92.0 %
. VOC (EU) (%)	
. Solids content:	8.0 %
. 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.

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**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: 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)

**CAS: 109-87-5 dimethoxymethane**

Oral	LD50	6,453 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)

Serious eye damage/irritation Causes serious eye irritation.

**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: 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: 109-87-5 dimethoxymethane**

EC50 (48h)	> 1,000 mg/l (daphnia magna/gr. Wasserfloh)
LC50 (96h)	> 1,000 mg/l (Brachydanio rerio)

**12.2 Persistence and degradability**

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

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

**CAS: 109-87-5 dimethoxymethane**

Biodegradability 30d	88 %
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**12.3 Bioaccumulative potential**

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

Log Pow	
Log Kow	
BCF	0.66

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

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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

HP4 | Irritant - skin irritation and eye damage

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. (METHYLAL, CYCLOPENTANE)  
FLAMMABLE LIQUID, N.O.S. (METHYLAL, CYCLOPENTANE)**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. (METHYLAL, CYCLOPENTANE),  
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

None of the ingredients is listed.

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- |   |  |
|---|--|
| . Seveso category   | P5c FLAMMABLE LIQUIDS                                  |
| . Qualifying quantity (tonnes) for the application of lower-tier requirements | 5,000 t  |
| . Qualifying quantity (tonnes) for the application of upper-tier requirements | 50,000 t   |
| . <b>15.2 Chemical safety assessment:</b>                                     | 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)<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonised System of Classification and Labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>ELINCS: European List of Notified Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical Society)<br>DNEL: Derived No-Effect Level (UK REACH)<br>PNEC: Predicted No-Effect Concentration (UK REACH)<br>LC50: Lethal concentration, 50 percent<br>LD50: Lethal dose, 50 percent<br>PBT: Persistent, Bioaccumulative and Toxic<br>vPvB: very Persistent and very Bioaccumulative<br>Flam. Liq. 2: Flammable liquids – Category 2<br>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2<br>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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