

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.01.2021

Version number 2003

Revision: 05.01.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: **ATTBLIME - AB24**
 UFI: TH30-X029-C008-XJDY
- 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
 Coating material
 Flattening agent, Matting agent

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: topometric GmbH
 Wilhelm-Zwick-Straße 7
 D-73035 Göppingen
 Tel.: +49 7161 4079-0
 Fax: +49 7161 4079-100
 E-Mail: info(at)topometric.de
 homepage: https://topometric.de/
- Manufacturer: Graichen Produktions- und Vertriebs- GmbH
 Darmstädterstraße 127-129
 D-64625 Bensheim
 Germany
 Tel.: +49 6251 7707880
 Fax: +49 6251 77901
 E-Mail: ehs@graichen-bensheim.de
 www.graichen.net

- Further information obtainable from: Environment protection department

1.4 Emergency telephone number:

During office hours: +49(0)6251/73103
 Out of office hours: +49(0)172/7478476

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.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
 Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02

- Signal word: Danger
- Hazard statements: H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 Precautionary statements: 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.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

- Results of PBT and vPvB assessment

PBT:

CAS: 294-62-2	Cyclododecan
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vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description: Active substance with propellant

Dangerous components:

CAS: 294-62-2 EINECS: 206-033-9	Cyclododecan non-classified PBT substance	25 – 50%
CAS: 106-97-8 EINECS: 203-448-7	butane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25 – 50%
CAS: 74-98-6 EINECS: 200-827-9	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 – 25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- . General information: Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Remove soiled, soaked clothing immediately.
After inhalation
Move subject to fresh air and keep him calm. See a physician.
- . After inhalation: Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
Use a respiratory bag or breathing device.
- . After skin contact: Wash with water and soap and rinse thoroughly
In case of cold burns, rinse with water for at least 15 minutes. Cover sterile
- . After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- . After swallowing: Seek immediate medical advice.
Rinse out mouth.
A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

In certain cases, the symptoms of poisoning may only appear after a long time / after several hours.

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: Water in the full ray

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.
When heated or in the event of fire formation of carbon monoxide (CO) possible.

5.3 Advice for firefighters

- . Protective equipment: Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
- . Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.

6.2 Environmental precautions:

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.
Keep contaminated washing water and dispose of appropriately.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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.
Ensure good ventilation/exhaustion at the workplace.
Observe normal precautions when handling chemicals

- . 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

- . Storage:
- . Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
Prevent any seepage into the ground.

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- . Information about storage in one common storage facility: Do not store with agents where chemical reaction ist possible (see sction 10)
Nicht zusammen lagern mit: Arzneimitteln, Lebens- und Futtermitteln einschließlic Zusatzstoffen; infektiösen, radioaktiven Stoffen:
- . 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.

SECTION 8: Exposure controls/personal protection

- . **8.1 Control parameters**
- . Additional information about design of technical facilities: No further data; see item 7.

- . Ingredients with limit values that require monitoring at the workplace:

CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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- . Additional information: The lists valid during the making were used as basis.
- . **8.2 Exposure controls**
- . Personal protective equipment:
- . General protective and hygienic measures: Wash hands before breaks and at the end of work.
- . Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- . Protection of hands: 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 protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

- . General Information
- . Appearance:
 - Form: Aerosol
 - Colour: colorless clear
 - Odour: Characteristic
 - Odour threshold: Not determined.
- . pH-value: Not determined.
- . Change in condition
 - Initial boiling point and boiling range: -44.5 °C
- . Flash point: -97 °C
- . Flammability (solid, gas): Not applicable.
- . Ignition temperature: 230 °C
- . Decomposition temperature: Not determined.
- . Auto-ignition temperature: Product is not selfigniting.
- . Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- . Explosion limits:
 - Lower: 1.5 Vol %
 - Upper: 10.9 Vol %
- . Vapour pressure at 20 °C: 8,300 hPa
- . Density at 20 °C: 0.7071 g/cm³
- . Relative density: Not determined.
- . Vapour density: Not determined.
- . Evaporation rate: Not applicable.
- . Solubility in / Miscibility with water: Not miscible or difficult to mix.

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. Partition coefficient: n-octanol/water:	Not determined.
. Viscosity: Dynamic:	Not determined.
. Solvent content: Organic solvents:	58.6 %
Solids content:	40.5 %
. 9.2 Other information	No further relevant information available.

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 toxicological effects	
. Acute toxicity	Based on available data, the classification criteria are not met.
. Primary irritant effect:	
. Skin corrosion/irritation	Based on available data, the classification criteria are not met.
. Serious eye damage/irritation	Based on available data, the classification criteria are not met.
. Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
. Additional toxicological information:	
. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
. Germ cell mutagenicity	Based on available data, the classification criteria are not met.
. Carcinogenicity	Based on available data, the classification criteria are not met.
. Reproductive toxicity	Based on available data, the classification criteria are not met.
. STOT-single exposure	Based on available data, the classification criteria are not met.
. STOT-repeated exposure	Based on available data, the classification criteria are not met.
. Aspiration hazard	Based on available data, the classification criteria are not met.

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: 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)

CAS: 74-84-0 ethane

EC50 (96h) 7.71 mg/l (Algae)

LC50 (96h) 27.98 mg/l (Fisch)

. 12.2 Persistence and degradability

Heavily biodegradable

. 12.3 Bioaccumulative potential

Bioaccumulation potentially possible

May be accumulated in organism

. 12.4 Mobility in soil

No further relevant information available.

. 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.

. 12.5 Results of PBT and vPvB assessment

. PBT:

CAS: 294-62-2 | Cyclododecan

. vPvB:

Not applicable.

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. 12.6 Other adverse effects No further relevant information available.

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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.

SECTION 14: Transport information**. 14.1 UN-Number**

. ADR, IMDG, IATA UN1950

. 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

. Class 2.1
. Label 2.1**. 14.4 Packing group**

. ADR, IMDG, IATA Void

. 14.5 Environmental hazards:

Not applicable.

. 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.. Segregation Code 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.**. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

. Transport/Additional information:

. ADR

. Limited quantities (LQ) 1L
. Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

. Transport category 2

. Tunnel restriction code D

. IMDG

. Limited quantities (LQ) 1L
. Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

. UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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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.
- . Seveso category
P3a FLAMMABLE AEROSOLS
- . Qualifying quantity (tonnes) for the application of lower-tier requirements
150 t
- . Qualifying quantity (tonnes) for the application of upper-tier requirements
500 t
- . REGULATION (EC) No 1907/2006 ANNEX XVII
Conditions of restriction: 3

. DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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 européen sur le transport 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)
 - 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

. * Data compared to the previous version altered.