

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2023

Reviewed on 01/13/2023

## 1 Identification

### Product identifier

Trade name: **ATTBLIME AB ECO**  
 Application of the substance / the mixture: Surface protection

### Details of the supplier of the safety data sheet

Manufacturer/Supplier: Graichen  
 Produktions- und Vertiebs-GmbH  
 Darmstädter Str. 127 - 129  
 D-64625 Bensheim  
 Tel.: +49(0)6251/73103  
 Fax: +49(0)6251/77901  
 e-mail: info@graichen-bensheim.de  
 homepage: http://www.graichen.net

Information department: Product Safety Department  
 Emergency telephone number: Graichen: During business hours :+49(0)6251 7707880  
 Graichen: Outside business hours: +49(0)172 7478476  
 Advice center for poisoning in Mainz Tel: +49(0)6131/19240 Poison information: +49(0) 700/GIFTINFO  
 USA / CAN : 800-424-9300 (available 24 hrs)

## 2 Hazard(s) identification

### Classification of the substance or mixture

Aquatic Acute 3 H402 Harmful to aquatic life.

### Label elements

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).  
 Hazard pictograms: Void  
 Signal word: Void  
 Hazard statements: Harmful to aquatic life.  
 Precautionary statements: Avoid release to the environment.  
 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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

### Other hazards

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

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

Dangerous components:

CAS: 471-34-1	Kalk	10 – 25%
CAS: 102-71-6	Triethanolamine	< 2.5%
CAS: 52-51-7	bronopol (INN) Eye Damage 1, H318; Aquatic Acute 1, H400 (M=10); Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335	< 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: 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.  
 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.

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**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.  
Use fire fighting measures that suit the environment.
- . **Special hazards arising from the substance or mixture** No further relevant information available.
- . **Advice for firefighters**
- . Protective equipment: No special measures required.

**6 Accidental release measures**

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **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.  
Dilute with plenty of water.
- . **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- . **Reference to other sections** See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- . **Protective Action Criteria for Chemicals**

. PAC-1:

CAS: 471-34-1	Kalk	45 mg/m <sup>3</sup>
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>
CAS: 102-71-6	Triethanolamine	15 mg/m <sup>3</sup>

. PAC-2:

CAS: 471-34-1	Kalk	210 mg/m <sup>3</sup>
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>
CAS: 102-71-6	Triethanolamine	240 mg/m <sup>3</sup>

. PAC-3:

CAS: 471-34-1	Kalk	1,300 mg/m <sup>3</sup>
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
CAS: 102-71-6	Triethanolamine	1,500 mg/m <sup>3</sup>

**7 Handling and storage**

- . **Handling:**
- . Precautions for safe handling No special precautions are necessary if used correctly.
- . Information about protection against explosions and fires: No special measures required.
- . **Conditions for safe storage, including any incompatibilities**
- . Requirements to be met by storerooms and receptacles: No special requirements.
- . Information about storage in one common storage facility: Store away from foodstuffs.
- . Further information about storage conditions: Store receptacle in a well ventilated area.
- . **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**
- . Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

**CAS: 471-34-1 Kalk**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	TLV withdrawn

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**CAS: 102-71-6 Triethanolamine**

TLV | Long-term value: 5 mg/m<sup>3</sup>

- . Additional information: The lists that were valid during the creation were used as basis.
- . **Exposure controls**
- . Personal protective equipment:
- . General protective and hygienic measures: Wash hands before breaks and at the end of work.
- . Breathing equipment: Not required.
- . 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: Goggles recommended during refilling.

**9 Physical and chemical properties**

**. Information on basic physical and chemical properties**

. General Information

. Appearance:

- Form: Liquid
- Color: White
- . Odor: Odorless
- . Odor threshold: Not determined.

. pH-value: Not determined.

. Change in condition

Boiling point/Boiling range: 100 °C (212 °F)

. Flash point: Not applicable.

. Flammability (solid, gaseous): Not applicable.

. Decomposition temperature: Not determined.

. Auto igniting: Product is not selfigniting.

. Danger of explosion: Not determined.

. Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

. Density: Not determined.

. Relative density: Not determined.

. Vapor density: Not determined.

. Evaporation rate: Not determined.

. Solubility in / Miscibility with

Water: Fully miscible.

. Partition coefficient (n-octanol/water): Not determined.

. Viscosity:

Dynamic: Not determined.

. Solvent content:

- Organic solvents: 1.0 %
- Water: 74.8 %
- VOC content: 1.00 %

Solids content: 24.2 %

. **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: 7631-86-9 silicon dioxide, chemically prepared**

Oral	LD50	10,000 mg/kg (rat)
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**CAS: 102-71-6 Triethanolamine**

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

**CAS: 52-51-7 bronopol (INN)**

Oral	LD50	307 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4h	800 mg/l (rat)

Primary irritant effect:

on the skin:

**CAS: 52-51-7 bronopol (INN)**

Ätz-/Reizwirkung auf die Haut	(rab)
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on the eye:

**CAS: 52-51-7 bronopol (INN)**

Irritation of eyes	Augenreiz- und -ätzwirkung	(rab)
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Sensitization:

**CAS: 52-51-7 bronopol (INN)**

Sensitization	Sensibilisierung	(Guinea Pigs)
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Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

CAS: 7631-86-9	silicon dioxide, chemically prepared	3
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CAS: 102-71-6	Triethanolamine	3
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NTP (National Toxicology Program)

None of the ingredients is listed.
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OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.
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Specific target organ toxicity - single exposure

**CAS: 52-51-7 bronopol (INN)**

STOT SE cat. 3, Atemwegsreizung	( )
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## 12 Ecological information

**Toxicity**

Aquatic toxicity:

**CAS: 102-71-6 Triethanolamine**

EC50 (72h)	> 100 mg/l (Desmodesmus subspicatus/Grünalge)
	> 100 mg/l (daphnia magna/gr. Wasserfloh)
LC50 (96h)	> 100 mg/l (Lepomis macrochirus)

**CAS: 52-51-7 bronopol (INN)**

EC50 (48h)	1.08 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (72h)	0.4 – 2.8 mg/l (Algae)
LC50 (96h)	41.2 mg/l (Oncorhynchus mykiss)
NOEC (21d)	0.03 mg/l /chron. (Desmodesmus subspicatus/Grünalge)
	0.06 mg/l /akut (daphnia magna/gr. Wasserfloh)

**Persistence and degradability**

**CAS: 52-51-7 bronopol (INN)**

Biodegradability 28d	51 – 57 % (Biodegradability - CO2 Evolution Test)
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**Behavior in environmental systems:**

Bioaccumulative potential

**CAS: 52-51-7 bronopol (INN)**

Log Pow	0.17 (---)
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Mobility in soil

No further relevant information available.

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**. 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: Not applicable.

. vPvB: Not applicable.

. Other adverse effects: No further relevant information available.

**13 Disposal considerations**

**. Uncleaned packagings:**

. Recommendation: Non contaminated packagings can be treated like household garbage.

. Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

**. UN-Number**

. DOT, ADR, ADN, IMDG, IATA: Void

**. UN proper shipping name**

. DOT, ADR, ADN, IMDG, IATA: Void

**. Transport hazard class(es)**

. DOT, ADR, ADN, IMDG, IATA: Void

. Class: Void

**. Packing group**

. DOT, ADR, IMDG, IATA: Void

**. Environmental hazards:**

Not applicable.

**. Special precautions for user**

Not applicable.

**. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**. UN "Model Regulation":**

Void

**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: 52-51-7 | bronopol (INN)

**. TSCA (Toxic Substances Control Act):**

All components have the value 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)**

None of the ingredients is listed.

**. MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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. 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                  | Void   |
| . Signal word                        | Void   |
| . Hazard statements                  | Harmful to aquatic life.   |
| . Precautionary statements           | Avoid release to the environment.<br>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 | 01/13/2023   |
| . 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>DOT: US Department of Transportation<br>IATA: International Air Transport Association<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>NFPA: National Fire Protection Association (USA)<br>HMIS: Hazardous Materials Identification System (USA)<br>VOC: Volatile Organic Compounds (USA, EU)<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>NIOSH: National Institute for Occupational Safety<br>OSHA: Occupational Safety & Health<br>TLV: Threshold Limit Value<br>PEL: Permissible Exposure Limit<br>REL: Recommended Exposure Limit<br>Acute Toxicity - Oral 4: Acute toxicity – Category 4<br>Skin Irritation 2: Skin corrosion/irritation – Category 2<br>Eye Damage 1: Serious eye damage/eye irritation – Category 1<br>Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3<br>Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1<br>Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 |

\* Data compared to the previous version altered.