

# Safety Data Sheet

## according to HPR, Schedule 1

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 identification

#### Classification of the substance or mixture

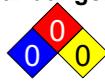
Aquatic Acute 3 H402 Harmful to aquatic life.

#### 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

### 3 Composition/Information on ingredients

#### Chemical characterization: Mixtures

Dangerous components:

CAS: 102-71-6	Triethanolamine	0.1 – 1% w/w
CAS: 52-51-7	bronopol (INN) ⚠ Serious Eye Damage - Category 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	≤ 0.1% w/w

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.

### 5 Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
 Use fire fighting measures that suit the environment.

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- . **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.

**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:

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

EL	TWA: 5 mg/m <sup>3</sup>
EV	TWA: 3.1 mg/m <sup>3</sup> , 0.5 ppm

- . **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

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. 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 %
Solids content:	24.2 %
. <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

. <b>Reactivity</b>	No further relevant information available.
. <b>Chemical stability</b>	
. Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
. <b>Possibility of hazardous reactions</b>	No dangerous reactions known.
. <b>Conditions to avoid</b>	No further relevant information available.
. <b>Incompatible materials:</b>	No further relevant information available.
. <b>Hazardous decomposition products:</b>	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)

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

Oral LD50 &gt; 2,000 mg/kg (rat)

Dermal LD50 &gt; 2,000 mg/kg (rabbit)

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

Oral LD50 307 mg/kg (rat)

Dermal LD50 &gt; 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)  
Haut - Stark reizend

. on the eye:

**CAS: 52-51-7 bronopol (INN)**
Irritation of eyes Augenreiz- und -ätzwirkung (rab)  
Augen - Stark reizend

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. Sensitization:		
<b>CAS: 52-51-7 bronopol (INN)</b>		
Sensitization	Sensibilisierung (Guinea Pigs) Nicht sensibilisierend	
. Additional toxicological information:		
. Carcinogenic categories		
. IARC (International Agency for Research on Cancer)		
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 102-71-6	Triethanolamine	3
. NTP (National Toxicology Program)		
None of the ingredients is listed.		
. Specific target organ toxicity - single exposure		
<b>CAS: 52-51-7 bronopol (INN)</b>		
STOT SE cat. 3, Atemwegsreizung ( )		

### 12 Ecological information

. <b>Toxicity</b>	
. Aquatic toxicity:	
<b>CAS: 102-71-6 Triethanolamine</b>	
EC50 (72h)	> 100 mg/l (Desmodesmus subspicatus/Grünalge)
	> 100 mg/l (daphnia magna/gr. Wasserfloh)
LC50 (96h)	> 100 mg/l (Lepomis macrochirus)
<b>CAS: 52-51-7 bronopol (INN)</b>	
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)
. <b>Persistence and degradability</b>	
<b>CAS: 52-51-7 bronopol (INN)</b>	
Biodegradability 28d	51 – 57 % (Biodegradability - CO2 Evolution Test)
. <b>Behavior in environmental systems:</b>	
. Bioaccumulative potential	
<b>CAS: 52-51-7 bronopol (INN)</b>	
Log Pow	0.17 (---)
. Mobility in soil	No further relevant information available.
. <b>Additional ecological information:</b>	
. 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.
. <b>Results of PBT and vPvB assessment</b>	
. PBT:	Not applicable.
. vPvB:	Not applicable.
. <b>Other adverse effects</b>	No further relevant information available.

### 13 Disposal considerations

. <b>Uncleaned packagings:</b>	
. Recommendation:	Non contaminated packagings can be treated like household garbage.
. Recommended cleansing agent:	Water, if necessary with cleansing agents.

### 14 Transport information

. <b>UN-Number</b>	
. DOT/TDG, ADR, ADN, IMDG, IATA	Void
. <b>UN proper shipping name</b>	
. DOT/TDG, ADR, ADN, IMDG, IATA	Void
. <b>Transport hazard class(es)</b>	
. DOT, ADR, ADN, IMDG, IATA	
. Class	Void
. <b>Packing group</b>	
. DOT/TDG, ADR, IMDG, IATA	Void

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