

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 Vertriebs-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)	≤ 0.1% w/w
⚠ 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		

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: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.

(Contd. on page 2)

CA

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/13/2023

Reviewed on 01/13/2023

Trade name: ATTBLIME AB ECO

(Contd. of page 1)

- . **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/m³
EV TWA: 3.1 mg/m³, 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

(Contd. on page 3)

CA

Safety Data Sheet

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Trade name: ATTBLIME AB ECO

(Contd. of page 2)

. 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 %
. 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.
. 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)

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)
Haut - Stark reizend

. on the eye:

CAS: 52-51-7 bronopol (INN)

Irritation of eyes Augenreiz- und -ätzwirkung (rab)
Augen - Stark reizend

(Contd. on page 4)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/13/2023

Reviewed on 01/13/2023

Trade name: ATTBLIME AB ECO

(Contd. of page 3)

. Sensitization:		
CAS: 52-51-7 bronopol (INN)		
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		
CAS: 52-51-7 bronopol (INN)		
STOT SE cat. 3, Atemwegsreizung ()		

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)
. Behavior in environmental systems:	
. Bioaccumulative potential	
CAS: 52-51-7 bronopol (INN)	
Log Pow	0.17 (---)
. 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:	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/TDG, ADR, ADN, IMDG, IATA	Void
. UN proper shipping name	
. DOT/TDG, ADR, ADN, IMDG, IATA	Void
. Transport hazard class(es)	
. DOT, ADR, ADN, IMDG, IATA	
. Class	Void
. Packing group	
. DOT/TDG, ADR, IMDG, IATA	Void

(Contd. on page 5)

CA

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(Contd. of page 4)

. 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.

. MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

. Canadian substance listings:

. Canadian Domestic Substances List (DSL)

All ingredients are listed.

. Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

. Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

. Canadian Ingredient Disclosure list (limit 1%)

CAS: 7631-86-9 | silicon dioxide, chemically prepared

CAS: 102-71-6 | Triethanolamine

. 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.

. Chemical safety assessment: 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.

. Department issuing SDS: Environment protection department.

. Contact:

. Date of the latest revision of the safety data sheet

01/13/2023

. Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

. * Data compared to the previous version altered.