

Printing date 01/13/2023 Reviewed on 01/13/2023

#### 1 Identification

. Product identifier

ATTBLIME ABX-G . Trade name:

. Application of the substance / the

mixture Aerosol Matting agent

. 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 Tèl: +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

Flammable Liquids 2 H225 Highly flammable liquid and vapor. Eye Irritation 2A H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

. Label elements . GHS label elements . Hazard pictograms

The product is classified and labeled according to the Globally Harmonized System (GHS).

**GHS02 GHS07** 

Danger

. Signal word

. Hazard-determining components of

labeling:

propan-2-ol

. Hazard statements Highly flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. . Precautionary statements

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Information pertaining to particular dangers for man and environment: Health = 2

. NFPA ratings (scale 0 - 4)

Fire = 3

Reactivity = 0

. HMIS-ratings (scale 0 - 4)

Health = 2 3 Fire = 3

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(Contd. of page 1) 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: 67-63-0	propan-2-ol	25 – 50%	
	♦ Flammable Liquids 2, H225; ♦ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336		
CAS: 287-92-3		25 – 50%	
	\delta Flammable Liquids 2, H225; Aquatic Chronic 3, H412		

. 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 Indication of any immediate

No further relevant information available.

medical attention and special

No further relevant information available. treatment needed

#### **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. Full jet water

. For safety reasons unsuitable extinguishing agents:

Special hazards arising from the

substance or mixture

Advice for firefighters

No further relevant information available.

. Protective equipment: No special measures required.

# 6 Accidental release measures

Personal precautions, protective

equipment and emergency

procedures

Not required.

Do not allow product to reach sewage system or any water course. **Environmental precautions:** 

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

sawdust).

Ensure adequate ventilation.

. Reference to other sections See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### otactive Action Critoria for Ch

. Protective Action Criteria for Chemicals	
. PAC-1:	
CAS: 67-63-0   propan-2-ol	400 ppm
CAS: 287-92-3 cyclopentane	1800* ppm
CAS: 95-93-2 sym-tetramethylbenzene	20 mg/m³
. PAC-2:	
CAS: 67-63-0   propan-2-ol	2000* ppm
CAS: 287-92-3 cyclopentane	3800* ppm
CAS: 95-93-2 sym-tetramethylbenzene	220 mg/m³
. PAC-3:	
CAS: 67-63-0 propan-2-ol	12000** ppm
CAS: 287-92-3 cyclopentane	23000*** ppm
CAS: 95-93-2 sym-tetramethylbenzene	1,300 mg/m <sup>3</sup>
<u> </u>	(Contd. on page 2

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# 7 Handling and storage

Handling:

Precautions for safe handling

No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

. 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. . 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: 67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m³, 400 ppm Short-term value: 1225 mg/m3, 500 ppm Long-term value: 980 mg/m³, 400 ppm

Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

CAS: 287-92-3 cyclopentane

REL Long-term value: 1720 mg/m³, 600 ppm

Long-term value: 1000 ppm FX

Ingredients with biological limit values:

#### CAS: 67-63-0 propan-2-ol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

. 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: 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. The exact break through time has to be found out by the manufacturer of the protective . Penetration time of glove material

gloves and has to be observed. Tightly sealed goggles . Eye protection:

# 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid Color: Colorless Characteristic Odor: Odor threshold: Not determined.

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. pH-value:	Not determined.			
. Change in condition Boiling point/Boiling range:	49.5 °C (121.1 °F)			
. Flash point:	-20 °C (-4 °F)			
. Flammability (solid, gaseous):	Highly flammable.			
. Ignition temperature:	363 °C (685.4 °F)			
. Decomposition temperature:	Not determined.			
. Auto igniting:	Product is not selfigniting.			
. Danger of explosion:	Not determined.			
. Explosion limits: Lower: Upper:	2 Vol % 12 Vol %			
. Vapor pressure at 20 °C (68 °F):	530 hPa (397.5 mm Hg)			
. Density at 20 °C (68 °F): . Relative density . Vapor density . Evaporation rate	0.7815 g/cm³ (6.5216 lbs/gal) Not determined. Not determined. Not determined.			
. Solubility in / Miscibility with Water:	Not miscible or difficult to mix.			
. Partition coefficient (n-octanol/wate	r): Not determined.			
. Viscosity: Dynamic:	Not determined.			
. Solvent content: Organic solvents: VOC content:	88.5 % 88.50 %			
Solids content:	11.5 %			
. Other information	No further relevant information available.			

## 10 Stability and reactivity

Reactivity Chemical stability No further relevant information available.

Thermal decomposition / conditions

No decomposition if used according to specifications. to be avoided:

Possibility of hazardous

reactions

No dangerous reactions known. No further relevant information available. Conditions to avoid . Incompatible materials: No further relevant information available.

**Hazardous decomposition** 

products: No dangerous decomposition products known.

# 11 Toxicological information

. Information on toxicological effects

. Acute toxicity:

CAS: 67-63-0 p	propan-2-ol
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5,840 mg/kg (rat) (Acute Oral Toxicity) Oral LD50 LD50 12,870 mg/kg (rab) (Acute Dermal Toxicity) Dermal

Inhalative LC50/4h 72.6 mg/l (rat)

LC50/6h > 25 mg/l (rat) (Acute Inhalation Toxicity)

Primary irritant effect:

. on the skin:

#### CAS: 67-63-0 propan-2-ol

Ätz-/Reizwirkung auf die Haut (4h) (rabbit) (Acute Dermal Irritation/Corrosion)

on the eye:

#### CAS: 67-63-0 propan-2-ol

Schwere Augenschädigung/-reizung (rabbit) (Acute Eye Irritation/Corrosion)

. Sensitization: No sensitizing effects known.

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Trade name: ATTBLIME ABX-G (Contd. of page 4) . Additional toxicological information: CAS: 67-63-0 propan-2-ol NOAEL, maternal 400 mg/kg KG/day (rat) 500 mg/kg KG/day (Two-Generation Reproduction Toxicity) NOAEL, parents 853 mg/kg KG/day (rat) (One-Generation Reproduction Toxicity Study) Carcinogenic categories IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol 3 NTP (National Toxicology Program) None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Reproductive toxicity

CAS: 67-63-0 propan-2-ol

Oral NOAEL, Parents 500 mg/kg (rat) (Two-Generation Reproduction Toxicity)

Specific target organ toxicity - repeated exposure

CAS: 67-63-0 propan-2-ol STOT RE mg/kg/day (rat)

## 12 Ecological information

. Toxicity

. Aquatic toxicity:		
CAS: 67-63-0 propan-2-ol		
EC50	> 100 mg/l (Bacteria)	
EC50 (48h)	> 100 mg/l (daphnia magnia/gr. Wasserfloh)	
EC50 (72h)	> 100 mg/l (Scenedesmus subspicatus)	
EC50 (96h)	> 1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)	
LC50 (24h)	9,714 mg/l (daphnia magnia/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)	
	9,640 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)	
LC50 (48h)	> 100 mg/l (Leuciscus idus (Goldorfe))	
LC50 (96h)	> 9,640 – 10,000 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)	
LOEC (8d)	1,000 mg/l (Algae)	
EC50 (3h)	> 1,000 mg/l (activated sludge) (Mikroorganismen/Wirkung auf Belebtschlamm)	
NOEC (21d)	30 mg/l (daphnia magnia/gr. Wasserfloh) (Daphnia magna Reproduction Test)	

Persistence and degradability

CAS: 67-63-0 propan-2-ol

Biodegradability 30d 70 - 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))

NOEC (96h) 1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)

Behavior in environmental systems:

Bioaccumulative potential

CAS: 67-63-0 propan-2-ol

Log Pow 0.05

. Mobility in soil No further relevant information available.

**Ecotoxical effects:** 

Harmful to fish . Remark:

Additional ecological information:

Harmful to aquatic organisms 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

Not applicable. . PBT: . 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.

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Trade name: ATTBLIME ABX-G (Contd. of page 5) 14 Transport information **UN-Number** DOT, ADR, IMDG, IATA UN1993 **UN proper shipping name** Flammable liquids, n.o.s. (Cyclopentane, Ethanol solutions) 1993 FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANE, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)) FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANE, ETHANOL SOLUTION) (ETHYL ALCOHOL SOLUTION)) . DOT . ADR . IMDG . IATA FLAMMABLÈ LIQUID, N.O.S. (CYCLOPENTANE, ETHANOL SOLUTION) . Transport hazard class(es) . DOT Class 3 Flammable liquids . Label . ADR . Class 3 (F1) Flammable liquids Label . IMDG, IATA . Class 3 Flammable liquids . Label . Packing group . DOT, ADR, IMDG, IATA **Environmental hazards:** Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 EMS Number: F-E,S-E Stowage Category В Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. . Transport/Additional information: . Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml . IMDG . Limited quantities (LQ) . Excepted quantities (ÉQ) 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. (CYCLOPENTANE, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)), 3, II

## 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: 67-63-0 propan-2-ol

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(Contd. of page 6) 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)

CAS: 67-63-0 propan-2-ol

A4

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

. GHS label elements . Hazard pictograms

The product is classified and labeled according to the Globally Harmonized System (GHS).



. Signal word Danger

. Hazard-determining components of

propan-2-ol labeling:

Highly flammable liquid and vapor. . Hazard statements

Causes serious eye irritation. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. . Precautionary statements

Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid rélease to the environment.

Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international

regulations

A Chemical Safety Assessment has not been carried out. . Chemical safety assessment:

#### 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 preparation / last revision

. Abbreviations and acronyms:

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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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## **Safety Data Sheet** acc. to OSHA HCS

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Trade name: ATTBLIME ABX-G

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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
VPVB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
FEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.