Printing date 01.09.2021 Version number 1 Revision: 01.09.2021

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

1.1 Product identifier

**ATTBLIME - AB2** . Trade name:

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 PROC5 Mixing or blending in batch processes . Process category

. Environmental rélease category ERC2 Formulation into mixture . Application of the substance / the

. 1.3 Details of the supplier of the safety data sheet

. Manufacturer/Supplier: DM Metrology Inc

Flatting agent, Matting agent

14-1860 Appleby Line, Suite 216 Burlington, ON L7L 6M6 Tel +1 905 691 1116 sales@dmmetrology.com

. 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

Giftnotrufzentrale

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

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eve Irrit. 2 H319 Causes serious eve irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

#### . 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 GHS07

. Signal word Danger

Hazard-determining components of

labelling:

propan-2-ol . Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

May cause drowsiness or dizziness. H336

. 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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P410+P412

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

national/international regulations.

Additional information: Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards

. Results of PBT and vPvB assessment

CAS: 294-62-2 Cyclododecan . vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

3.2 Chemical characterisation: Mixtures

. Description: Active substance with propellant

P501

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Trade name: ATTBLIME - AB2

		(Contd. of page 1)
. Dangerous component	S:	
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: 67-63-0 EINECS: 200-661-7	propan-2-ol <b>♦</b> Flam. Liq. 2, H225; <b>♦</b> Eye Irrit. 2, H319; STOT SE 3, H336	10 – 25%
CAS: 74-98-6 EINECS: 200-827-9	propane  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 – 25%
CAS: 294-62-2 EINECS: 206-033-9	Cyclododecan non-classified PBT substance	2.5 – 10%
EC number: 920-750-0	Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes  ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H336	< 2.5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane (containing ≤ 0,1 % butadiene (106-99-0))  ♦ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	< 2.5%

. Additional information:

For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

. 4.1 Description of first aid measures

. After inhalation: Supply fresh air; consult doctor in case of complaints.

. After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a

doctor.

. After swallowing: Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delaved

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:

. 5.2 Special hazards arising from

the substance or mixture

. 5.3 Advice for firefighters

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

No further relevant information available.

No further relevant information available.

. Protective equipment: No special measures required.

# **SECTION 6: Accidental release measures**

. 6.1 Personal precautions, protective equipment and

emergency procedures

Keep away from ignition sources.

**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.

. 6.3 Methods and material for

containment and cleaning up:

Ensure adequate ventilation.

. 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.

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

. Requirements to be met by

storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

. Information about storage in one common storage facility:

Store away from foodstuffs.

. Further information about storage

Keep container tightly sealed.

conditions:

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.

(Contd. on page 3)

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Trade name: ATTBLIME - AB2

(Contd. of page 2)

#### **SECTION 8: Exposure controls/personal protection**

#### . 8.1 Control parameters

. 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/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)		
CAS: 67-63-0 propan-2-ol		

DNEL Long-term - systemic effects 26 mg/kg bw/day (general (Allgemeinbevölkerung))

DNEL Long-term - systemic effects 319 mg/kg bw/day (general (Allgemeinbevölkerung))

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm Long-term value: 999 mg/m³, 400 ppm

. DNEL
--------

Oral Dermal

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

Inhalative	DNEL Long-term - systemic effects	888 mg/kg bw/day (Workers (Arbeitnehmer)) 89 mg/m³ (general (Allgemeinbevölkerung)) 500 mg/m³ (employee / Arbeitnehmer) 500 mg/m³ (Workers (Arbeitnehmer))
Hydrocarl	oons, C7-C9, n-Alkanes, Isoalkane	s, Cycloalkanes
Oral	DNEL Long-term - systemic effects	699 mg/kg bw/day (Consumers (Verbraucher))
Dermal	DNEL Long-term - systemic effects	699 mg/kg bw/day (Consumers (Verbraucher))
		773 mg/kg bw/day (Workers (Arbeitnehmer))

2,035 mg/m3 (Workers (Arbeitnehmer))

# PNECs

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

PNEC Soil (Boden)	28 mg/kg
PNEC fresh water sediment (Süßwassersediment)	552 mg/kg
PNEC fresh water (Süßwasser)	140.9 mg/l
PNEC marine water sediment	140.9 mg/l 552 mg/kg 140.9 mg/l
PNEC Marine water	140.9 mg/l
PNEC-STP	2,251 mg/l

. Additional information: The lists valid during the making were used as basis.

Inhalative | DNEL Long-term - systemic effects | 608 mg/m³ (Consumers (Verbraucher))

#### . 8.2 Exposure controls

. Personal protective equipment: . General protective and hygienic

measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

. Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the

preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion

and the degradation

. Material of gloves Recommended thickness of the material: ≥ 0.7 mm

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.

. 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. Value for the permeation: Level ≤ 0,7 mm 480min (8h) EN374

Tightly sealed goggles Eye protection: . Body protection: Protective work clothing

#### **SECTION 9: Physical and chemical properties**

## . 9.1 Information on basic physical and chemical properties

General Information

. Appearance:

Form: Aerosol Colour: Whitish Odour: Alcohol-like . Odour threshold: Not determined.

pH-value at 20 °C: 6.9

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Trade name: ATTBLIME - AB2		
	(Contd. of page 3)	
. Change in condition Initial boiling point and boiling range	e: -44.5 °C	
. Flash point:	-97 °C	
. Ignition temperature:	230 °C	
. Decomposition temperature:	Not determined.	
. Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
. Explosion limits: Lower: Upper:	1.5 Vol % 12 Vol %	
. Vapour pressure at 20 °C:	8,300 hPa	
. Density at 20 °C: . Relative density . Vapour density . Evaporation rate	0.6815 g/cm³ Not determined. Not determined. Not applicable.	
. Solubility in / Miscibility with water:	Not determined.	
. Partition coefficient: n-octanol/water:	Not determined.	
. Viscosity: Dynamic:	Not applicable. Not determined.	
. Solvent content: Organic solvents:	90.4 %	

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

5.0 %

. 10.2 Chemical stability

Solids content:

9.2 Other information

. Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

No further relevant information available.

. 10.3 Possibility of hazardous

reactions

No dangerous reactions known.

. 10.4 Conditions to avoid . 10.5 Incompatible materials:

No further relevant information available. 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.

	,	,,,,,	
. LD/LC50 va	. LD/LC50 values relevant for classification:		
CAS: 67-6	CAS: 67-63-0 propan-2-ol		
Oral	LD50	5,840 mg/kg (rat) (Acute Oral Toxicity)	
Dermal	LD50	12,870 mg/kg (rab) (Acute Dermal Toxicity)	
Inhalative	LC50/4h	72.6 mg/l (rat)	
İ	LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)	
Hydrocarb	Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes		
Oral	LD50	> 5,000 mg/kg (rat) (Acute Oral Toxicity)	
Dermal	LD50	> 2,800 mg/kg (rabbit) (Acute Dermal Toxicity)	
Inhalative LC50/4h > 23.3 mg/l (rat) (Acute Inhalation Toxicity)			
. Primary irri	. Primary irritant effect:		

. Skin corrosion/irritation	
CACLCT CO O propos O ol	

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

. Serious eye damage/irritation

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

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

. Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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Trade name: ATTBLIME - AB2 (Contd. of page 4) Additional toxicological information: CAS: 67-63-0 propan-2-ol NOAEL, maternal 400 mg/kg KG/day (rat) NOAEL, parents 500 mg/kg KG/day (Two-Generation Reproduction Toxicity) 853 mg/kg KG/day (rat) (One-Generation Reproduction Toxicity Study) . CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Based on available data, the classification criteria are not met. . Germ cell mutagenicity . Carcinogenicity Based on available data, the classification criteria are not met. . Reproductive toxicity CAS: 67-63-0 propan-2-ol Oral NOAEL, Parents 500 mg/kg (rat) (Two-Generation Reproduction Toxicity)

STOT-single exposure May cause drowsiness or dizziness.

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

Based on available data, the classification criteria are not met. . Aspiration hazard

SECTION 12	2: 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: 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)		
NOEC (96h)	1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)		
CAS: 74-98-6	CAS: 74-98-6 propane		
EC50 (96h)	7.71 mg/l (Algae)		
LC50 (96h)	27.98 mg/l (Fisch)		
Hydrocarbon	s, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes		
LL50 (96h)	> 13.4 mg/l (Oncorhynchus mykiss)		
EL50 (48h)	3 mg/l (daphnia magnia/gr. Wasserfloh)		
EL50 (72h)	10 – 30 mg/l (Pseudokirchneriella subcapitata - Algen)		
NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata - Algen)		
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)		
12.2 Persistence and degradability			
CAS: 67-63-0			
Biodegradability 30d 70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))			
. 12.3 Bioaccumulative potential			

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

Log Pow | 0.05

. 12.4 Mobility in soil No further relevant information available.

. Additional ecological information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for . General notes:

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

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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

#### **SECTION 14: Transport information**

. 14.1 UN-Number ADR, IMDG, IATA

UN1950

1950 AEROSOLS

. 14.2 UN proper shipping name

. ADR

. IMDG **AEROSOLS** AEROSOLS, flammable . IATA

. 14.3 Transport hazard class(es)

. ADR



2 5F Gases. Class . Label

2.1

. IMDG, IATA



Class 2.1

. Label

. 14.4 Packing group

. 14.5 Environmental hazards:

. ADR, IMDG, IATA Void

Not applicable. . 14.6 Special precautions for user Warning: Gases.

Hazard identification number (Kemler code):

F-D,S-U . EMS Number:

. 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

SG69 For AEROSOLS with a maximum capacity of 1 litre: . Segregation Code

1L

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) . Excepted quantities (ÉQ) Code: F0

Not permitted as Excepted Quantity

2 D . Transport category . Tunnel restriction code

. IMDG

Limited quantities (LQ)

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(Contd. of page 6) . Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity UN "Model Regulation": UN 1950 AEROSOLS, 2.1

## **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

150 t requirements

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 15.2 Chemical safety

500 t

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:

Environment protection department.

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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

. \* Data compared to the previous

version altered.

GB