

Safety Data Sheet acc. to OSHA HCS

Reviewed on 01/13/2023

1 Identification • Product identifier • Trade name: • ATBLIME - AB2 • Article number: 5140-1285 • Application of the substance / the " • Manufacture/Supplier: • Produktions- und Verliebs-GmbH • Details of the supplier of the safety data sheet • Produktions- und Verliebs-GmbH • Manufacture/Supplier: • Produktions- und Verliebs-GmbH • Details of the supplier of the safety data sheet • Produktions- und Verliebs-GmbH • Information department: • Product Safety Department • Emergency telephone number: • Product Safety Department • Poison Information Centre Mainz - 24h • Turde Names Nours - 440(0)(52) 1707880 • Grachem: Outring business hours: -440(0)(52) 1707880 • Grachem: Outring business hours: -440(0)(52) 1707880 • Classification of the substance or mixture • H220 Contains gas under pressure; may explode if heated. • Babel idements • H230 Contains gas under pressure; may explode if heated. • Grass under Pressure - Compressed gas • H230 Contains gas under pressure; may explode if heated. • Grass under Pressure - Compressed gas • H230 Contains gas under pressure; may explode if heated. • Grass under Pressure - Compressed gas • H230 Contains gas under pressure; may explode if heated. <	Printing date 01/13/2023		Reviewed on 01/13/2023
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Manufacturer/Supplier: Graidem Manufacturer/Supplier: Graidem Produktions- und Vertiebs-GmbH Demostrater Str. 12 - 129 Demostrater Str. 12 - 129 Fax: 440(0)625/17301 Fax: 440(0)727/7080 Graichen: During business hours: 440(0)172 7478476 Zassification of the substance or mixture Flammable Aerosols 1 H222 Extremely flammable aerosol. Gasse under Pressure - Compressed gas H230 Contains gas under pressure; may explode if heated. Eye Initiation 2A H310 Clause serious gave irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. Labol alaments Hazard statements Hazard statements Hazard statements Precautionary statements Hazard of therming components of procescience of dizziness. Precautionary statements Hazard s		Flatting agent, Matting agent	
 Emergency telephone number: Tel: +49 (0) 6131 19240 USA / CAN: 800-424-9300 (available 24 hrs) Graitcher: During business hours: +49(0)172 7478476 2 Hazard(s) identification Classification of the substance or mixture Flammable Aerosols 1 Classification of the substance or mixture Flammable Aerosols 1 H222 Extremely flammable aerosol. Garace under Pressure - Compressed gas H220 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. Label elements GH5 label elements H512 CoH5 Garage Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. Label elements GH502 GH504 GH507 Signal word Hazard-determining components of Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes Hazard statements Precautionary statements Preseriting pressite: General care of the pressite; General care of the right opace. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dustriburgotar/shirupars/spray Wash thorocupity after handling. Use on the valicity with weat for several minutes. Remove contact lenses, if preserit and easy to do. Continue rinsing. Call a poison cente	. Details of the supplier of the safe . 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	
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Safety Data Sheet acc. to OSHA HCS

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Trade name: ATTBLIME - AB2

. vPvB:

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Not applicable.

(Contd. of page 1)

Chemical char	/information on i racterization: Mixtu		
. Description:		Active substance with propellant	
. Dangerous con	nponents:		
	butane (containing	\leq 0,1 % butadiene (106-99-0)) es 1, H220; 🔗 Gases under Pressure - Compressed gas, H280	25 – 50
CAS: 67-63-0	propan-2-ol	ids 2, H225;	10 – 28 le
CAS: 74-98-6	propane	as 1, H220, A Cases under Pressure Compressed ass, H290	10 - 28
	Hydrocarbons, C7-	es 1, H220; 🔗 Gases under Pressure - Compressed gas, H280 C9, n-Alkanes, Isoalkanes, Cycloalkanes ids 2, H225; 🌢 Aspiration Hazard 1, H304; 🔶 Aquatic Chronic 2, H411;	< 2.5
CAS: 75-28-5	isobutane (containi	Organ Toxicity - Single Exposure 3, H336; Aquatic Acute 2, H401 ng \leq 0,1 % butadiene (106-99-0)) es 1, H220; \bigcirc Gases under Pressure - Compressed gas, H280	< 2.5
. Additional inform		For the wording of the listed hazard phrases refer to section 16.	
4 First-aid mea	SUIRAS		
	first aid measures		
. After inhalation . After skin conta . After eye conta . After swallowing	: act: ct: g:	Supply fresh air; consult doctor in case of complaints. Wash with water and acidic soap. Rinse opened eye for several minutes under running water. If symptoms per doctor. Seek immediate medical advice.	rsist, consul
. Information for . Most important effects, both ac . Indication of an medical attentio	symptoms and ute and delayed y immediate	No further relevant information available.	
treatment need		No further relevant information available.	
5 Fire-fighting	measures		
. Extinguishing . Suitable extingu	media uishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray resistant foam.	y or alcohol
 Special hazard substance or i Advice for fire 			
. Protective equi		No special measures required.	
6 Accidental re	elease measures		
Borconal proo	autions, protective		
. Personal prece	domorgonev		
equipment and	a emergency		
		Keep away from ignition sources Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag	je system.
equipment and procedures Environmenta Methods and r containment a Reference to c	I precautions: material for and cleaning up: other sections	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	e system.
equipment and procedures . Environmenta . Methods and r containment a . Reference to c	l precautions: naterial for nd cleaning up:	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	e system.
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equipment and procedures . Environmenta . Methods and r containment a . Reference to c . Protective Act . PAC-1: CAS: 106-97-8	I precautions: material for ind cleaning up: other sections ion Criteria for Che	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals ≤ 0,1 % butadiene (106-99-0))	5500* ppm
equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals ≤ 0,1 % butadiene (106-99-0))	5500* ppm 400 ppm
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equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 74-98-6 CAS: 75-28-5 CAS: 74-84-0 PAC-2: CAS: 106-97-8	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol propane isobutane (containi ethane	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewag Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals $\leq 0,1 \%$ butadiene (106-99-0)) $\leq 0,1 \%$ butadiene (106-99-0)) $\leq 0,1 \%$ butadiene (106-99-0))	5500* ppm 400 ppm 5500* ppm 65000*** pp 7000** ppm
equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 74-98-6 CAS: 74-98-6 CAS: 75-28-5 CAS: 74-84-0 PAC-2: CAS: 106-97-8 CAS: 67-63-0	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol propane isobutane (containi ethane butane (containing propan-2-ol	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0))	5500* ppm 400 ppm 5500* ppm 5500* ppm 65000*** pp 17000** ppm 2000* ppm
equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 74-84-0 PAC-2: CAS: 106-97-8 CAS: 67-63-0 CAS: 67-63-0 CAS: 74-98-6	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol propane isobutane (containi ethane butane (containing propan-2-ol propan-2-ol propane	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals $\leq 0,1$ % butadiene (106-99-0)) ing $\leq 0,1$ % butadiene (106-99-0)) 1 $\leq 0,1$ % butadiene (106-99-0))	5500* ppm 400 ppm 5500* ppm 65000*** pp 7000** ppm 2000* ppm
equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 74-84-0 PAC-2: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 75-28-5	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol propane isobutane (containi ethane butane (containing propan-2-ol propan-2-ol propane	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0)) 1 $g \leq 0,1$ % butadiene (106-99-0)) 1 $g \leq 0,1$ % butadiene (106-99-0))	5500* ppm 400 ppm 5500* ppm 5500* ppm 65000*** pp 7000** ppm 7000** ppm 7000** ppm
equipment and procedures Environmenta Methods and r containment a Reference to c Protective Act PAC-1: CAS: 106-97-8 CAS: 67-63-0 CAS: 74-98-6 CAS: 74-84-0 PAC-2: CAS: 106-97-8 CAS: 67-63-0 CAS: 67-63-0 CAS: 74-98-6	I precautions: material for and cleaning up: other sections ion Criteria for Che butane (containing propan-2-ol propane isobutane (containi ethane butane (containing propan-2-ol propan-2-ol propane	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage Ensure adequate ventilation. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. emicals $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0)) $\leq 0,1$ % butadiene (106-99-0)) 1 $g \leq 0,1$ % butadiene (106-99-0)) 1 $g \leq 0,1$ % butadiene (106-99-0))	5500* ppm 400 ppm 5500* ppm 65000*** pp 7000** ppm 2000* ppm

Safety Data Sheet acc. to OSHA HCS

Printing date 01/13/2023

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Trade name: ATTBLIME - AB2

CAS: 106-97-8 butane (containing	g ≤ 0,1 % butadiene (106-99-0))	53000*** pp
CAS: 67-63-0 propan-2-ol		12000** ppn
CAS: 74-98-6 propane		33000*** pp
CAS: 75-28-5 isobutane (contain	isobutane (containing \leq 0,1 % butadiene (106-99-0))	
CAS: 74-84-0 ethane		400000*** p
Handling and storage		
Handling:		
Precautions for safe handling Information about protection	Open and handle receptacle with care.	
against explosions and fires:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to tempe 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.	ratures exceed
Conditions for safe storage, inc Requirements to be met by	luding any incompatibilities	
storerooms and receptacles:	Store in a cool location. Observe official regulations on storing packagings with pressurized conta	ainers.
Information about storage in one common storage facility: Further information about storage	Store away from foodstuffs.	
conditions: Specific end use(s)	Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. No further relevant information available.	
Specific end use(s)		
Exposure controls/personal	protection	
Expectate controlorpercentar		
Additional information about	·	
Additional information about design of technical systems:	No further data; see item 7.	
Additional information about design of technical systems: Control parameters		
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the		
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the	The following constituents are the only constituents of the product which or other recommended exposure limit.	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $\log \le 0,1$ % butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $\log \le 0,1$ % butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $\log \le 0,1$ % butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX)	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $\log \le 0,1$ % butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1900 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1900 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³ TLV Short-term value: 200 ppm Long-term value: 200 ppm BEI, A4	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm ⁴ , 400 ppm ⁵ , 400 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³ TLV Short-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. ng ≤ 0,1 % butadiene (106-99-0)) n ³ , 800 ppm ⁴ , 400 ppm ⁵ , 400 ppm ⁷ , 1000 ppm	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1900 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³ TLV Short-term value: 200 ppm Long-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m TLV Short-term value: 1800 mg/m	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) $n^3, 800 \text{ ppm}$ $n^3, 800 \text{ ppm}$ $n^3, 500 \text{ ppm}$ $n^3, 500 \text{ ppm}$ $n^3, 1000 \text{ ppm}$ $n^3, 1000 \text{ ppm}$ gen content (D, EX)	have a PEL, T
Additional information about design of technical systems: Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containin REL Long-term value: 1900 mg/m TLV Short-term value: 1900 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 980 mg/m ³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m ³ TLV Short-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m REL Long-term value: 1800 mg/m	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) $n^3, 800 \text{ ppm}$ $n^3, 800 \text{ ppm}$ $n^3, 500 \text{ ppm}$ $n^3, 500 \text{ ppm}$ $n^3, 1000 \text{ ppm}$ $n^3, 1000 \text{ ppm}$ gen content (D, EX) ning $\le 0,1 \%$ butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ REL Short-term value: 980 mg/m ³ TLV Short-term value: 200 ppm Long-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m TLV Short-term value: 1800 mg/m CAS: 75-28-5 isobutane (contain TLV Short-term value: 1000 ppm (EX)	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm n^3 , 500 ppm n^3 , 500 ppm n^3 , 400 ppm n^3 , 1000 ppm gen content (D, EX) ning $\le 0,1 \%$ butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m³ TLV Short-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m³ TLV Short-term value: 1800 mg/m³ TLV Short-term value: 400 ppm Long-term value: 400 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m REL Short-term value: 1800 mg/m³ TLV Short-term value: 1800 mg/m REL Long-term value: 1800 mg/m	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm n^3 , 500 ppm n^3 , 500 ppm n^3 , 400 ppm n^3 , 1000 ppm gen content (D, EX) ning $\le 0,1 \%$ butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m³ TLV Short-term value: 200 ppm Desc. PEL Long-term value: 400 ppm Long-term value: 1800 mg/m³ TLV Short-term value: 1800 mg/m³ REL Long-term value: 1800 mg/m³ REL	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm n^3 , 500 ppm n^3 , 500 ppm n^3 , 400 ppm n^3 , 1000 ppm gen content (D, EX) ning $\le 0,1 \%$ butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m ³ TLV Short-term value: 980 mg/m ³ REL Short-term value: 200 ppm Long-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m TLV Short-term value: 1800 mg/m ³ TLV Short-term value: 200 ppm BEI, A4 CAS: 74-98-6 propane PEL Long-term value: 1800 mg/m REL Short-term value: 1800 mg/m BEI, A4 CAS: 75-28-5 isobutane (contain TLV Short-term value: 1000 ppm (EX) Ingredients with biological limit value: CAS: 67-63-0 propan-2-ol BEI 40 mg/L	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm n^3 , 500 ppm n^3 , 500 ppm n^3 , 400 ppm n^3 , 1000 ppm gen content (D, EX) ning $\le 0,1 \%$ butadiene (106-99-0))	have a PEL, T
Additional information about design of technical systems: Control parameters Components with limit values that require monitoring at the workplace: CAS: 106-97-8 butane (containing REL Long-term value: 1900 mg/m TLV Short-term value: 1000 ppm (EX) CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m³ REL Short-term value: 1225 mg/m Long-term value: 980 mg/m³ TLV Short-term value: 200 ppm Desc. PEL Long-term value: 400 ppm Long-term value: 1800 mg/m³ TLV Short-term value: 1800 mg/m³ REL Long-term value: 1800 mg/m³ REL	The following constituents are the only constituents of the product which or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits. $ng \le 0,1 \%$ butadiene (106-99-0)) n^3 , 800 ppm n^3 , 800 ppm n^3 , 500 ppm n^3 , 500 ppm n^3 , 1000 ppm n^3 , 1000 ppm n^3 , 1000 ppm n^3 , 1000 ppm ues:	have a PEL, T



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Trade name: ATTBLIME - AB2

	(Contd. of page 3)
. 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.
. Breathing equipment:	Avoid contact with the eyes and skin. Not required.
. Protection of hands:	Protective gloves 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	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. 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: . Body protection:	Tightly sealed goggles Protective work clothing

9 Physical and chemical properties

. Information on basic physical and . General Information . Appearance:	chemical properties
Form:	Aerosol
Color:	White
. Odor:	Characteristic
. Odor threshold:	Not determined.
. pH-value at 20 °C (68 °F):	6.9
. Change in condition Boiling point/Boiling range:	-44.5 °C (-48.1 °F)
. Flash point:	-97 °C (-142.6 °F)
. Flammability (solid, gaseous):	Not applicable.
. Ignition temperature:	230 °C (446 °F)
. Decomposition temperature:	Not determined.
. Auto igniting:	Product is not selfigniting.
. Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
. Explosion limits:	
Lower:	1.5 Vol %
Upper:	12 Vol %
. Vapor pressure at 20 °C (68 °F):	8,300 hPa (6.200 mm Hg)
. Density at 20 °C (68 °F):	0.6815 g/cm³ (5.6871 lbs/gal)
. Relative density	Not determined.
. Vapor density	Not determined.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with Water:	Insoluble.
. Partition coefficient (n-octanol/water)	: Not determined.
. Viscosity:	
Dynamic:	Not determined.
. Solvent content:	
Organic solvents:	90.4 %
VOC content:	91.71 %
Solids content:	5.0 %
. Other information	No further relevant information available.
	(Contd. on page 5) US

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Trade name: ATTBLIME - AB2

10 Stability and 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. Incompatible materials: No further relevant information available. Information on toxicological effects No dangerous decomposition products known.	
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 No dangerous decomposition products known.	
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.	
Possibility of hazardous 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. Incompatible materials: No further relevant information available. Hazardous decomposition No dangerous decomposition products known. Incompatible information No dangerous decomposition products known.	
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. . Toxicological information No dangerous decomposition products known.	
. Conditions to avoid No further relevant information available. . Incompatible materials: No further relevant information available. . Hazardous decomposition products: No dangerous decomposition products known. 1 Toxicological information Information	
Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known. Incompatible materials: No further relevant information available. No dangerous decomposition products known. No dangerous decomposition products known.	
products: No dangerous decomposition products known. 1 Toxicological information	
1 Toxicological information	
Information on toxicological effects	
. Acute toxicity: . LD/LC50 values that are relevant for classification:	
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)	
LC50/6h > 25 mg/l (rat) (Acute Inhalation Toxicity)	
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 irritant effect:	
. on the skin:	
CAS: 67-63-0 propan-2-ol	
Atz-/Reizwirkung auf die Haut (4h) (rabbit) (Acute Dermal Irritation/Corrosion)	
. on the eye: Irritating effect.	
CAS: 67-63-0 propan-2-ol	
Schwere Augenschädigung/-reizung (rabbit) (Acute Eye Irritation/Corrosion)	
. Sensitization: No sensitizing effects known.	
. Additional toxicological information: The product shows the following dangers according to internally approved ca methods for preparations: Irritant	alculation
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)	
. Carcinogenic categories	
. IARC (International Agency for Research on Cancer)	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program)	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program) None of the ingredients is listed.	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program) None of the ingredients is listed. . OSHA-Ca (Occupational Safety & Health Administration)	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program) None of the ingredients is listed.	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program) None of the ingredients is listed. . OSHA-Ca (Occupational Safety & Health Administration)	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . 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	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . NTP (National Toxicology Program) None of the ingredients is listed. . OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. . Reproductive toxicity	
. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . 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	
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. IARC (International Agency for Research on Cancer) CAS: 67-63-0 propan-2-ol . 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) 2 Ecological information . Toxicity . Aquatic toxicity:	

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Trade name: ATTBLIME - AB2

		(Contd. of page 5)
CAS: 67-63-0		
EC50	> 100 mg/l (Bacteria	
EC50 (48h)		a magnia/gr. Wasserfloh)
EC50 (72h)		esmus subspicatus)
EC50 (96h)	> 1,000 mg/l (Scene	edesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	9,714 mg/l (daphnia	a magnia/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
		ales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LC50 (48h)	> 100 mg/l (Leuciso	
LC50 (96h)		g/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
		gr (Finephales prometas (lettkopi, Einize)) (Fish, Acute Toxicity Test)
LOEC (8d)	1,000 mg/l (Algae)	
EC50 (3h)		ted sludge) (Mikroorganismen/Wirkung auf Belebtschlamm)
NOEC (21d)		agnia/gr. Wasserfloh) (Daphnia magna Reproduction Test)
NOEC (96h)	1,000 mg/l (Scened	esmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
CAS: 74-98-6	propane	
EC50 (96h)	7.71 mg/l (Algae)	
LC50 (96h)	27.98 mg/l (Fisch)	
. ,		s, Isoalkanes, Cycloalkanes
LL50 (96h)	> 13.4 mg/l (Oncort	
EL50 (48h)		gnia/gr. Wasserfloh)
EL50 (72h)		dokirchneriella subcapitata - Algen)
		shneriella subcapitata - Algen)
		ing ≤ 0,1 % butadiene (106-99-0))
EC50 (96h)	7.71 mg/l (Algae)	
LC50 (96h)	27.98 mg/l (Fisch)	
Persistence	and degradability	
CAS: 67-63-0		
		arek) //Dantanna af tha "Daadu" Biadaan (Classed Battla))
•		erob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))
	environmental syste	ms:
. Bioaccumulati		
CAS: 67-63-0		
Log Pow 0.05	5	
. Mobility in soil		No further relevant information available.
	ological informatio	n:
. General notes	5.	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.
. PBT:	BT and vPvB assess	Not applicable.
. vPvB:		Not applicable.
. Other advers	e effects	No further relevant information available.
13 Disposal co	nsiderations	
. Waste treatm . Recommenda		Must not be disposed of together with household garbage. Do not allow product to reach
. Recommenda	uon.	
		sewage system.
. Uncleaned pa	ackagings:	Discussed in the model according to 100 high a 100
. Recommenda		Disposal must be made according to official regulations.
. Recommende	d cleansing agent:	Water, if necessary with cleansing agents.
14 Transport in	oformation	
. UN-Number		
. DOT, ADR, IN	IDG, IATA	UN1950
. UN proper sh	ipping name	
. DOT		Aerosols, flammable
. ADR		1950 AEROSOLS
. IMDG		AEROSOLS
. IATA		AEROSOLS, flammable
,		(Contd. on page 7)
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nting date 01/13/2023	Reviewed on 01/13/2
ade name: ATTBLIME - AB2	
	(Contd. of p
. Transport hazard class(es)	
. DOT	
. Class	2.1 Gases
. Label	21
. ADR	
. Class . Label	2 5F Gases 2.1
. IMDG, IATA	
A	
\mathbf{V}	
. Class . Label	2.1 Gases 2.1
. Packing group	2.1
. DOT, ADR, IMDG, IATA	Void
. Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases
. Hazard identification number (Kemler code): . EMS Number:	- F-D,S-U
. 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
. Segregation Code	living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre:
	Segregation as for class 9. Stow "separated from" class 1 exc
	for division 1.4. For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
Transport in bulk apporting to Appay II of MARE	
. Transport in bulk according to Annex II of MARF and the IBC Code	Not applicable.
. Transport/Additional information:	
. ADR	
. Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (ÉQ)	Code: E0 Not permitted as Excepted Quantity
. UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
Regulatory information	
Safety, health and environmental	
regulations/legislation specific	and information quality la
for the substance or mixture No further relev Sara	vant information available.
. 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 7)
CAS: 74-98-6 propane	ACTIVE
CAS: 294-62-2 Cyclododecan	ACTIVE
	ing \leq 0,1 % butadiene (106-99-0)) ACTIVE
CAS: 74-84-0 ethane	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 reprodu	uctive toxicity for females:
None of the ingredients is listed.	
. Chemicals known to cause reprodu	uctive toxicity for males:
None of the ingredients is listed.	
	ementel tevisitu
. Chemicals known to cause develo	
None of the ingredients is listed.	
. Carcinogenic categories	
. EPA (Environmental Protection Ag	ency)
None of the ingredients is listed.	
. TLV (Threshold Limit Value)	
CAS: 67-63-0 propan-2-ol	A4
. MAK (German Maximum Workplac	e Concentration)
None of the ingredients is listed.	
. NIOSH-Ca (National Institute for O	ccupational 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	
1 0	$\langle \underline{\emptyset} \rangle \langle - \rangle \langle \underline{!} \rangle$
	$\nabla \vee \nabla$
	GHS02 GHS04 GHS07
. Signal word	Danger
. Hazard-determining components o	f
labeling:	propan-2-ol
Llazard statements	Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes
. Hazard statements	Extremely flammable aerosol. Contains gas under pressure; may explode if heated.
	Causes serious eye irritation.
	May cause drowsiness or dizziness.
. Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	Do not spray on an open flame or other ignition source.
	Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray
	Wash thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Wear eye protection / face protection.
	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.
	Store in a well-ventilated place. Keep container tightly closed.
	Store locked up. Protect from sunlight. Store in a well-ventilated place.
	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
	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	
	resent knowledge. However, this shall not constitute a guarantee for any specific product
	egally valid contractual relationship.
. Department issuing SDS:	Environment protection department.
Contact:	
Date of preparation / last revision	(11/13/20/23

sion 01/13/2023

- . Date of preparation / last revision . 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) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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	(Contd.	ofner
	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, ÉU) 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 BEI: Biological Exposure Limit	
	Flammable Gases 1: Flammable gases – Category 1 Flammable Aerosols 1: Aerosols – Category 1	
	Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas 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) – Catego Aspiration Hazard 1: Aspiration hazard – Category 1 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2	ory 3
	Aquatic Acute 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
. * Data compared to the previous version altered.		