

Safety Data Sheet acc. to OSHA HCS

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1 Identification	
. Product identifier	
. Trade name:	ATTBLIME AB2-G
. Article number: . Application of the substance / the	5360-0634, 5360-0633
mixture	Flatting agent, Matting agent
. <b>Details of the supplier of the saf</b> . Manufacturer/Supplier:	iety data sheet Graichen Produktions- und Vertriebs GmbH Darmstädter Str.127 D-64625 Bensheim Tel.: +49(0)6251 / 7707880 Fax: +49(0)6251 / 77901 e-Mail: ehs@graichen-bensheim.de
	http:///www.graichen.net
. Information department:	Product Safety Department
. Emergency telephone number:	Emergency medical information for poisoning: Graichen: During business hours :+49(0)6251 7707880 Graichen: Outside business hours:+49(0)172 7478476 USA / CAN : 800-424-9300 (available 24 hrs) Advice center for poisoning in Mainz Tel: +49(0)6131/19240 Poison information:+49(0)700/ GIFTINFO
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.
	ngle 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	The product is classified and labeled according to the Globally Harmonized System (GHS).
. Hazard pictograms	
	$\forall \vee$
	GHS02 GHS07
. Signal word	Danger
. Hazard-determining components o	f
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.
. Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	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
. Information pertaining to partic	regulations. Jlar dangers for man and environment:
. NFPA ratings (scale 0 - 4)	Health = 2
	2 Fire = 3 Reactivity = 0
	Reactivity = 0
. HMIS-ratings (scale 0 - 4)	HEALTH 2 Health = 2 FIRE 3 Fire = 3
	REACTIVITY REACTIVITY = 0
	(Contd. on page 2)

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		(Contd. of page
. Other hazards		(
. Results of PBT and vPvB assess . PBT:	Not applicable.	
. vPvB:	Not applicable.	
3 Composition/information on	ingradients	
. Chemical characterization: Mix		
. Dangerous components:		
CAS: 67-63-0 propan-2-ol		25 – 509
Flammable Lic Exposure 3, H33		
CAS: 109-87-5 dimethoxymethar		_ 25 – 509
CAS: 287-92-3 cyclopentane		10 - 25%
Flammable Lic	uids 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 measure	25	
. 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: . After swallowing:	Rinse opened eye for several minutes under running water. 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.	
. For safety reasons unsuitable extinguishing agents:	Full jet water	
Special hazards arising from th	e	
substance or mixture	No further relevant information available.	
. Advice for firefighters . Protective equipment:	No special measures required.	
. Trotective equipment.	no special measures required.	
6 Accidental release measure	S	
. Personal precautions, protectiv	e	
equipment and emergency		
procedures . Environmental precautions:	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.
<ul> <li>Methods and material for containment and cleaning up:</li> </ul>	Aboorb with liquid hinding motorial (and distantic and hinders with and hi	ndora
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal bi sawdust).	nuers,
	Ensure adequate ventilation.	
. Reference to other sections	See Section 8 for information on personal protection equipment.	
Protective Action Criteria for Cl	See Section 13 for disposal information.	
. PAC-1:		
CAS: 67-63-0 propan-2-ol		400 ppm
CAS: 109-87-5 dimethoxymethar	le	230 ppm
CAS: 287-92-3 cyclopentane		1800* ppn
. PAC-2:		1 F.B.
CAS: 67-63-0 propan-2-ol		2000* ppr
CAS: 07-03-0 propan-2-01 CAS: 109-87-5 dimethoxymethar		2500 ppn
CAS: 109-07-5 dimenoxymetrial CAS: 287-92-3 cyclopentane		3800* ppr
. PAC-3:		10000 hhi
		0000**
	11	2000 "" nnm
CAS: 67-63-0 propan-2-ol CAS: 109-87-5 dimethoxymethar		2000** ppm 5000** ppm

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CAS: 287-92-3 [cyclopentame       Control space         Handling:       No special precautions are necessary if used correctly.         Information about protection against explosions and fire:       Keep ignition sources away - Do not smoke. Protect against electrostatic charges.         Conditions for asfe storage, including any incompatibilities       Store in a cool location.         Superinomation about storage in one common storage faelity:       Store in a cool location.         Further information about storage continues.       Store away from foodstuffs.         Store away from foodstuffs.       Store in a cool location.         Store in a cool location.       Store in a cool location.         Store in a cool location.       Store in a cool location.         Additional information about design of technical systems:       No further relevant information about design of technical systems:         Ocampoents with limit values that require monitoring at the workplace:       CoA: 67.63.9 propan-2.0         Compoents with limit values that require monitoring at the workplace:       CoA: 67.63.9 propan-2.0         Compoents with limit values that require monitoring at the workplace:       CoA: 67.63.9 propan-2.0         CoA: 67.63.9 propan-2.0       Berling and the down of more information about down of more in the oppoint.         TV / Long-term value: 300 mg/m, 400 ppm       EL         REL Long-term value: 300 mg/m, 400 ppm       EL      <	Trade name: ATTBLIME AB2-G		
Handling:       No special precautions are necessary if used correctly.         Internation about protection against explosions and frees.       Keep ignition sources away - Do not smoke.         Protect against electrostatic charges.       Protect against electrostatic charges.         Conditions for safe storage, including any incompatibilities       Store in a cool location.         Information about storage in one Further information about storage in one Conditions:       Store in a cool location.         Specific end use(s)       No further relevant information available.         8 Exposure controls/personal protection       Additional information about storage in cool, dry conditions in well sealed receptacles. Store receptacle in a well wontaket.         Additional information about design of technical systems:       No further relevant information available.         8 Exposure controls/personal protection       Additional information about technical systems:         . Components with limit values that require monitoring at the workplace:       CAs: 67:63 orgona-201         PEL       Long-term value: 300 mg/m, 1000 ppm         Long-term value: 300 mg/m, 1000 ppm       Eff. An         IT       V Sort-term value: 200 ppm         Long-term value: 300 mg/m, 1000 ppm       Eff. An         V Long-term value: 300 mg/m, 1000 ppm       Eff. An         V Long-term value: 300 mg/m, 600 ppm       Eff. An         V Long-term value: 300 m			
<ul> <li>Precautions for safe handling Information about protection.</li> <li>Keep Ignition sources away - Do not smoke. Protect logations technological dignits (electrostatic charges).</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Requirements to be met by sufformation about storage in one common storage facility.</li> <li>Further information about storage in one common storage facility.</li> <li>Further information about storage in one common storage facility.</li> <li>Store in a cool location.</li> <li>Store in a cool location.</li> <li>Store in a cool location.</li> <li>Store in a cool cool dry conditions in well sealed receptacles. Store receptacle in a well ventilated area.</li> <li>No further relevant information about design of technical systems.</li> <li>No further relevant information about design of technical systems.</li> <li>No further data: see item 7.</li> <li>Control parameters</li> <li>Components with limit values that require monitoring at the workplace:</li> <li>CAS: 67.83.9 prognan-2-01</li> <li>PEL Long-term value: 900 mg/m, 400 ppm Long-term value: 900 mg/m, 1000 ppm Long-term value: 900 mg/m, 1000 ppm</li> <li>REL Long-term value: 900 pgm, 1000 ppm</li> <li>REL Long-term value: 900 pgm, 1000 ppm</li> <li>CAS: 67.83.9 prognan-2-01</li> <li>PEL Long-term value: 900 pgm, 1000 ppm</li> <li>Long-term value: 900 pgm</li> <li>CAS: 67.83.9 prognan-2-01</li> <li>BET 40 mg/L</li> <li>Medium: units</li> <li>Material information:</li> <li>The lists that were valid during the creation were used as basis.</li> <li>Protection of honds:</li> <li>Protection of honds:</li> <li>Protection of honds:</li> <li>Protection of honds:</li> <li>Protection of honds:</li></ul>	7 Handling and storage		
Conditions for sefe storage, including any incompatibilities       Store in a cool location.         Requirements to be methy common storage facility:       Store in a cool location.         Further information about storage conditions:       Store away from foodstuffs.         Specific and use(s)       Store in a cool dy conditions in well exelled acceptacles.         Specific and use(s)       Store in a cool dy conditions in well exelled acceptacles.         Specific and use(s)       No further data; see item 7.         Components with limit values that require monitoring at the workplace:       Constrol parameters         Components with limit values that require monitoring at the workplace:       Constrol parameters         Components with limit values that require monitoring at the workplace:       Constrol parameters         Components with limit values that require monitoring at the workplace:       Constrol parameters         Constrol parameters       Store program that require monitoring at the workplace:         Constrol parameters       Constrol parameters         Constrol parameters       Store program that require monitoring at the workplace:         Constrol parameters       Constrol parameters         Constrol parameters       Store program that require monitoring at the workplace:         Constrol parameters       Constrol parameters         Constrol parameters       Store parameters	. Precautions for safe handling . Information about protection	Keep ignition sources away - Do not smoke.	
Additional information about design of technical systems:       No further data; see item 7.         Components with limit values that require monitoring at the workplace:       CAs: 67-63-0 propan-2-ol         PEL       Long-term value: 980 mg/m <sup>2</sup> , 400 ppm         Long-term value: 980 mg/m <sup>2</sup> , 400 ppm       Long-term value: 200 ppm         Long-term value: 200 ppm       Long-term value: 200 ppm         Dign-term value: 3100 mg/m <sup>2</sup> , 1000 ppm       Long-term value: 200 ppm         REL       Long-term value: 3100 mg/m <sup>2</sup> , 1000 ppm         REL       Long-term value: 3100 mg/m <sup>2</sup> , 1000 ppm         TV       Stort-429-3 cyclopentane         PEL       Long-term value: 3100 mg/m <sup>2</sup> , 1000 ppm         TV       Long-term value: 3100 mg/m <sup>2</sup> , 600 ppm         TV       Long-term value: 1200 mg/m <sup>2</sup> , 600 ppm         TV       Long-term value: 1200 mg/m <sup>2</sup> , 600 ppm         TV       Long-term value: 1200 mg/m <sup>2</sup> , 600 ppm         TV       Long-term value: 1200 mg/m <sup>2</sup> , 600 ppm         TV       Long-term value: 1000 ppm         EX       Long-term value: 1000 ppm         CAS: 267-83-9 propan-2-ol       EA         BEI       A0 mg/L         Medium: urine       Time: end of shift at end f workweek         Parameter: Acctotive and hygienic       Mash hands before breaks and at the end of work.	<ul> <li>Requirements to be met by storerooms and receptacles:</li> <li>Information about storage in one common storage facility:</li> <li>Further information about storage conditions:</li> </ul>	uding any incompatibilities Store in a cool location. Store away from foodstuffs. Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area.	
design of technical systems:       No further data; see item 7.         . Components with limit values that require monitoring at the workplace:       Components with limit values that require monitoring at the workplace:         CAS: 67-63-0 propan-2-01       PFEL Long-term value: 980 mg/m², 400 ppm         PEL Long-term value: 980 mg/m², 400 ppm       Long-term value: 400 ppm         Long-term value: 3100 mg/m², 1000 ppm       Long-term value: 3100 mg/m², 1000 ppm         REL Long-term value: 3100 mg/m², 1000 ppm       REL Long-term value: 1000 ppm         TV Long-term value: 1000 ppm       REL Long-term value: 1000 ppm         CAS: 287-92-3 cyclopentane       REL         REL Long-term value: 1000 ppm       REL Long-term value: 1000 ppm         TV Long-term value: 1000 ppm       REL Long-term value: 1000 ppm         Long-term value: 1000 ppm       REL Long-term value: 1000 ppm         CAS: 287-92-3 cyclopentane       REL         REL Long-term value: 1000 ppm       REL Long-term value: 1000 ppm         Long-term value: 1000 ppm       Rec Long-term value: 1000 ppm         Value: Sign propar-2-ol       BEI 40 mg/L         BeI 40 mg/L       Markin: at end of workweek         Transmeter: Acetone (background, nonspecific)       Markinst were valid during the creation were used as basis.         Separating equipment:       The lists that were valid during the creation were used as basis.		protection	
Components with limit values that require monitoring at the workplace:     CAS: 67-63-0 propan-2-ol PEL Long-term value: 980 mg/m <sup>2</sup> , 400 ppm Long-term value: 980 mg/m <sup>2</sup> , 400 ppm DEL, 44 CAS: 109-87-5 dimethoxymethane PEL Long-term value: 3100 mg/m <sup>2</sup> , 1000 ppm REL Long-term value: 3100 mg/m <sup>2</sup> , 1000 ppm CAS: 287-92-3 cyclopentane REL Long-term value: 1000 ppm TV Long-term value: 1000 ppm CAS: 287-92-3 cyclopentane REL Long-term value: 1000 ppm LX Ingredients with biological limit values: CAS: 67-63-0 propan-2-ol BEL 40 mg/L. Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) . Additional information: Frotection of hands: Protective equipment: Protective gloves Reathing equipment: Reathing equipment: Protective gloves Reathing equipment: Re	design of technical systems:	No further data; see item 7.	
PEL       Long-term value: 980 mg/m³, 400 ppm         Long-term value: 980 mg/m³, 400 ppm         Long-term value: 200 ppm         BEI, A4         CAS: 109-87-5 dimethoxymethane         PEL       Long-term value: 3100 mg/m³, 1000 ppm         REL       Long-term value: 3100 mg/m³, 1000 ppm         REL       Long-term value: 3100 mg/m³, 1000 ppm         REL       Long-term value: 1000 ppm         CAS: 187-92-3 cyclopentane       REL         REL       Long-term value: 1000 ppm         CAS: 57-63-0 propan-2-ol       BEI 40 mg/L         Medium: urine Time: end of shift at end of workweek Parameter: Acclone (background, nonspecific)       .         . Additional information:       The lists that were valid during the creation were used as basis.         Exposure controls       Protective equipment: General protective equipment:         . Protection of hands:       Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         . Protection of file gloves       The substing legive material can be given for the preparation.         . Material of gloves       The substing legive material has to be impermeable and resistant to the product/ the substance/ the preparation.         . Penetration time of glove material       The substing legive material and and ware is for manufacturer. As the produci is a preparatin of several substances,		require monitoring at the workplace:	
REL       Short-term value: 1225 mg/m², 500 ppm Long-term value: 200 ppm BEI, A4         CAS: 109-87-5 dimethoxymethane         PEL       Long-term value: 3100 mg/m², 1000 ppm REL         CaS: 109-87-5 dimethoxymethane         PEL       Long-term value: 3100 mg/m², 1000 ppm REL         CAS: 287-92-3 cyclopentane         REL       Long-term value: 1000 ppm         CAS: 287-92-3 cyclopentane         REL       Long-term value: 1000 ppm         TV       Long-term value: 1000 ppm         CAS: 57-63-0 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:       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 of the glove material can be given for the preparation. Due to missing tests no recommendation of the glove material can be given for the preparation.         . Material of gloves       The selection of the subtable gloves does not only depend on the material, but also on a preparation of several substances, the respiration of the product is a preparation of several substance, the product is a preparation of several substance, the preparation of be observed.			
TLV       Short-term value: 400 ppm Bel, A4         CAS: 109-87-5 dimethoxymethane         PEL       Long-term value: 3100 mg/m³, 1000 ppm         REL       Long-term value: 3100 mg/m³, 1000 ppm         TLV       Long-term value: 3100 mg/m³, 1000 ppm         TLV       Long-term value: 3100 mg/m³, 1000 ppm         CAS: 287-92-3 cyclopentane       REL         REL       Long-term value: 1720 mg/m³, 600 ppm         T.V       Long-term value: 1000 ppm         CAS: 67-63-0 propan-2-ol       EX         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 equipment: Beriading equipment: Protection of hands:         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. 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, but also on further marks of quality and varies fro	REL Short-term value: 1225 mg/m	<sup>3</sup> , 500 ppm	
PEL       Long-term value: 3100 mg/m³, 1000 ppm         REL       Long-term value: 3100 mg/m³, 1000 ppm         TLV       Long-term value: 1000 ppm         CAS: 287-92-3 cyclopentane       REL         REL       Long-term value: 1720 mg/m³, 600 ppm         TLV       Long-term value: 1000 ppm         EX       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:       Acditional information:         The lists that were valid during the creation were used as basis.         Exposure controls       Personal protective equipment:         General protective equipment:       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 equation and the degradation and the degradation of the glove 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, but also on further marks of quality and varies from manufacturer to the application.         . Penetration time of glove material       The exact break through time has to be found out by the manufacturer of the product is a preparation or is ev	TLV Short-term value: 400 ppm Long-term value: 200 ppm	400 ppm	
REL Long-term value: 3100 mg/m³, 1000 ppm         TVV       Long-term value: 1000 ppm         CAS: 287-92-3 cyclopentane         REL Long-term value: 1720 mg/m³, 600 ppm         TVV       Long-term value: 1000 ppm         EX       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 General protective equipment: General protective and hygienic measures:       Wash hands before breaks and at the end of work.         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       The substance, the substance, the resistance of the glove 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 calcuidated in advaries and has therefore to be checked prio			
CAS: 287-92-3 cyclopentane         REL       Long-term value: 1720 mg/m³, 600 ppm         TLV       Long-term value: 1000 ppm         EX       . Ingredients with biological limit values:         CAS: 67-63-0 propan-2-ol       BEI         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 and hygienic measures:         . Breathing equipment:       . Not required.         . Protection of hands:       Protective gloves         . Protection of hands:       . Protection of the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. / the chemical mixture.         Selection of the gloves       . Due to missing tests no recommendation to the glove material can be given for the product/ the substance, the resistance of the glove material can be given for the product/ the substance, the resistance of the glove material can be given for the product/ the substances, the resistance of the glove material can ot be calculated in advance and has therefore to be checked prior to the application.         . Material of gloves       The substances, the resistance of the glove material can ot be calculated in advance and has therefore to be checked prior to the application.         . Penetration time of glove material </td <td>REL Long-term value: 3100 mg/m</td> <td></td>	REL Long-term value: 3100 mg/m		
REL Long-term value: 1720 mg/m³, 600 ppm EX         TLV Long-term value: 1000 ppm EX         . 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: Central protective and hygienic measures: . Breathing equipment: . Protection of hands: . Protection of hands: . Material of gloves       The lists that were valid during the creation were used as basis.         . Material of gloves       Wash hands before breaks and at the end of work. Not required. . 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 genetration times, rates of diffusion and the degradation . Material of gloves         . Material of gloves       The selection of the substance, the preparation of several substances, the resistance of the glove 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, but also on further marks of quality and varies from manufacturer to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         . Penetration time of glove material       Tightly sealed goggles			
TLV       Long-term value: 1000 ppm         EX       Ingredients with biological limit values:         CAS: 67-63-0 propan-2-ol       Edit 40 mg/L         Medium: urine       Time: end of shift at end of workweek         Parameter: Acetone (background, nonspecific)       Additional information:         Additional information:       The lists that were valid during the creation were used as basis.         Exposure controls       Personal protective equipment:         General protective equipment:       Stath ands before breaks and at the end of work.         Breathing equipment:       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 of several substances, the resistance of the glove 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 gloveanterial, but also on further marks of quality and varies from manufacturer 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:       Tighty sealed goggles		<sup>3</sup> 600 ppm	
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:       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.         Due to missing tests no recommendation to the glove material can be given for the product/ the preparation of the chemical mixture.         Selection of the gloves       The selection of the 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:       Tightly sealed goggles	TLV Long-term value: 1000 ppm	, 000 ppm	
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       The lists that were valid during the creation were used as basis.         Personal protective equipment: General protective and hygienic measures: Protection of hands:       Wash hands before breaks and at the end of work.         Breathing equipment: Protection of hands:       Wash hands before breaks and at the end of work.         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 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from 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 gloves and has to be observed.         Penetration time of glove material       Tightly sealed goggles		Jes:	
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:       The lists that were valid during the creation were used as basis.         Breathing equipment:       Vash hands before breaks and at the end of work.         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       The selection of several substances, the resistance of the glove material can not be calculated in advance and has to be found out by the 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:       Tighty sealed goggles			
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:       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 gloves       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 vact break through time has to be found out by the manufacturer of the application.         The selection:       Tightly sealed goggles	Medium: urine Time: end of shift at end of wo		
<ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures:</li> <li>Breathing equipment:</li> <li>Protection of hands:</li> <li>Protective gloves</li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</li> <li>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</li> <li>Material of gloves</li> <li>Penetration time of glove material</li> <li>Penetration time of glove material</li> <li>Eye protection:</li> </ul>	. Additional information:	The lists that were valid during the creation were used as basis.	
<ul> <li>Material of gloves</li> <li>Material of gloves</li> <li>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.</li> <li>Penetration time of glove material</li> <li>Eye protection:</li> </ul>	. Personal protective equipment: . General protective and hygienic measures: . Breathing equipment:	Not required. 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	
<ul> <li>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.</li> <li>Eye protection: Tightly sealed goggles (Contd. on page 4)</li> </ul>	. 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.	
. Eye protection: Tightly sealed goggles (Contd. on page 4)	. 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:	Tightly sealed goggles	

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#### Trade name: ATTBLIME AB2-G

		(Contd. of page 3
9 Physical and chemical prope	rties	
. Information on basic physical a		
. General Information		
. Appearance: Form:	Fluid	
Color:	Colorless	
. Odor:	Mild	
. Odor threshold:	Not determined.	
. pH-value at 20 °C (68 °F):	6.9	
. Change in condition Boiling point/Boiling range:	52 °C (125.6 °F)	
. Flash point:	-18 °C (-0.4 °F)	
. Flammability (solid, gaseous):	Not applicable.	
. Ignition temperature:	365 °C (689 °F)	
. Decomposition temperature:	Not determined.	
. Auto igniting:	Product is not selfigniting.	
. Danger of explosion:	Not determined.	
. Explosion limits:		
Lower:	1.6 Vol %	
Upper:	17.6 Vol %	
. Vapor pressure at 20 °C (68 °F):	530 hPa (397.5 mm Hg)	
. Density at 20 °C (68 °F):	0.802 g/cm³ (6.6927 lbs/gal) Not determined.	
. Relative density . Vapor density	Not determined.	
. Evaporation rate	Not determined.	
. Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
. Partition coefficient (n-octanol/wate		
```	s). Not determined.	
. Viscosity: Dynamic:	Not determined.	
. Solvent content:		
Organic solvents: VOC content:	92.0 % 92.00 %	
Solids content:	8.0 %	
. Other information	No further relevant information available.	
0 Stability and reactivity		
. Reactivity	No further relevant information available.	
. Chemical stability		
. Thermal decomposition / condition		
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.	
<ul> <li>Hazardous decomposition products:</li> </ul>	No dangerous decomposition products known.	
1 Toxicological information		
. Information on toxicological effe	ects	
. Acute toxicity:		
. LD/LC50 values that are relevant f	or classification:	
CAS: 67-63-0 propan-2-ol		

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)
CAS: 109-87-5 dimethoxymethane		
Oral	LD50	6,453 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
		(Contra on norma E)

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#### Trade name: ATTBLIME AB2-G

. Primary irritant effect: (Contd. of page 4)		
. 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.		
. 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)		
. 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 Inh	ibiti)	
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 Inhib	iti)	
CAS: 109-87-5 dimethoxymethane		
EC50 (48h) > 1,000 mg/l (daphnia magnia/gr. Wasserfloh)		
LC50 (96h) > 1,000 mg/l (Brachydanio rerio)		
. Persistence and degradability		
CAS: 67-63-0 propan-2-ol		
Biodegradability 30d 70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))		
CAS: 109-87-5 dimethoxymethane		
Biodegradability 30d 88 %		
. 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: . Remark: Harmful to fish		
. Additional ecological information:		
. General notes: Harmful to aquatic organisms		
	(Contd. on page 6)	

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Printing date 01/13/2023 Trade name: ATTBLIME AB2-G (Contd. of page 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. 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. 14 Transport information **UN-Number** DOT, ADR, IMDG, IATA UN1993 . UN proper shipping name . DOŤ Flammable liquids, n.o.s. (Methylal, Cyclopentane) 1993 FLAMMABLE LIQUID, N.O.S. (METHYLAL, . ADR CYCLOPENTANE) . IMDG, IATA FLAMMABLE LIQUID, N.O.S. (METHYLAL, CYCLOPENTANE) . Transport hazard class(es) . DOT **3 Flammable liquids** Class . Label 3 . ADR Class 3 (F1) Flammable liquids Label . IMDG, IATA . Class 3 Flammable liquids . Label 3 . **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: ADR . 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) 11 . 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. (METHYLAL, CYCLOPENTANE), 3, II (Contd. on page 7)

n page 7)

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♦ ATTBLIME

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#### Trade name: ATTBLIME AB2-G

	(Contd. of page 6
15 Regulatory information	
. Safety, health and environme regulations/legislation specif for the substance or mixture . Sara	ntal ic No further relevant information available.
. Section 355 (extremely hazardo None of the ingredients is listed	
. Section 313 (Specific toxic cher	
CAS: 67-63-0 propan-2-ol	
. TSCA (Toxic Substances Contr All components have the value	
. Hazardous Air Pollutants	
None of the ingredients is listed . Proposition 65	l.
. Chemicals known to cause can	
None of the ingredients is listed	
None of the ingredients is listed	
. Chemicals known to cause repr	
None of the ingredients is listed Chemicals known to cause dev	
None of the ingredients is listed	
. Carcinogenic categories	
. EPA (Environmental Protection None of the ingredients is listed	
. TLV (Threshold Limit Value)	•
CAS: 67-63-0 propan-2-ol	A4
. MAK (German Maximum Work	place Concentration)
None of the ingredients is listed	or 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)
	GHS02 GHS07
. Signal word	Danger
. Hazard-determining componen labeling: . Hazard statements	ts of propan-2-ol Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
. Precautionary statements	<ul> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>Wash thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Avoid release to the environment.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if</li> </ul>
	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.

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Trade name: ATTBLIME AB2-G		
. Chemical safety assessment:	A Chemical Safety Assessment has not been carried out. (Contd. of page 7)	
16 Other information		
	resent knowledge. However, this shall not constitute a guarantee for any specific product egally valid contractual relationship.	
<ul> <li>Department issuing SDS:</li> <li>Contact:</li> <li>Date of preparation / last revision</li> <li>Abbreviations and acronyms:</li> </ul>	Environment protection department. 01/13/2023 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 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 DBT: 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 Aspecific 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.		