

Safety Data Sheet according to Regulation (EC) No 1907/2006

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BONDERITE L-GP BND60A ACHESON known as PULVE BND 60A (FEDG) (Aerosol)

SDS No. : 369109 V005.1 Revision: 05.09.2018 printing date: 14.12.2018 Replaces version from: 08.11.2017

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

1.1. Product identifier

BONDERITE L-GP BND60A ACHESON known as PULVE BND 60A (FEDG) (Aerosol)

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use: Protective coating for welding

1.3. Details of the supplier of the safety data sheet Henkel AG & Co. KGaA Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 (211) 797 0 Fax-no.: +49 (211) 798 4008

ua-productsafety.de@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable aerosols	Category 1
H222 Extremely flammable aerosol.	
Flammable aerosols	Category 1
H229 Pressurised container: May burst if heated.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central Nervous System	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:	
Contains	Acetone
	Butanone
Signal word:	Danger
Hazard statement:	 H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Supplemental information	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statement: Prevention	 P210 Keep away from heat/open flames/hot surfaces No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not breathe mist/vapours. P280 Wear eye protection/face protection.
Precautionary statement: Storage	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

None if used properly. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Base substances of preparation: Pigment solvent

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.	20 40 0/	
Acetone	200-662-2	20- 40 %	Flam. Liq. 2
67-64-1	01-2119471330-49		H225
			Eye Irrit. 2
			H319
			STOT SE 3
			H336
Butane, n- (< 0.1 % butadiene)	203-448-7	20- 40 %	Flam. Gas 1
106-97-8	01-2119474691-32		H220
			Press. Gas
Propane	200-827-9	20- 40 %	Flam. Gas 1
74-98-6	01-2119486944-21		H220
			Press. Gas
Butanone	201-159-0	10- 20 %	STOT SE 3
78-93-3	01-2119457290-43	10- 20 %	H336
78-93-3	01-2119437290-43		Eye Irrit. 2
			H319
			Flam. Liq. 2
			H225
ethyl formate	203-721-0	1-< 5 %	Flam. Liq. 2
109-94-4	203-721-0	1-< 5 /0	H225
107-74-4			Acute Tox. 4; Inhalation
			H332
			Acute Tox. 4; Oral
			H302
			Eye Irrit. 2
			H319
			STOT SE 3
			H335
1,3-Dioxolane	211-463-5	1-< 3%	Flam. Liq. 2
646-06-0	01-2119490744-29	1 \ 5 /0	H225
	01 2119 1907 11 29		Eye Irrit. 2
			H319

Declaration of the ingredients according to CLP (EC) No 1272/2008:

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of adverse health effects seek medical advice.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Vapors may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

EYE: Irritation, conjunctivitis.

4.3. Indication of any immediate medical attention and special treatment needed See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, powder Fine water spray

Extinguishing media which must not be used for safety reasons: Water jet (solvent-containing product).

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5.2. Special hazards arising from the substance or mixture

Cool pressurized can containers with jet of water. Containers may explode.

5.3. Advice for firefighters

Wear protective equipment. Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact. Ensure that workrooms are adequately ventilated. See advice in section 8 Avoid open flames and sources of ignition. Ground/bond container and receiving equipment. Use explosion proof electric equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Take measures to prevent the build-up of electrostatic charges.

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Do not store or use near heat, spark, open flame or other sources of ignition. Take precautionary measures against static discharges during storage and transport. Keep container in a well ventilated place. Storage at 5 to 25°C is recommended. **7.3. Specific end use(s)** Protective coating for welding

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]			Short term exposure limit category / Remarks	Regulatory list	
Acetone 67-64-1 [ACETONE]	500	1.210	Time Weighted Average (TWA):	Indicative	ECTLV
Acetone 67-64-1	500	1.200	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Acetone 67-64-1			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Propane 74-98-6	1.000	1.800	Exposure limit(s):	4	TRGS 900
Propane 74-98-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Butane 106-97-8	1.000	2.400	Exposure limit(s):	4	TRGS 900
Butane 106-97-8			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Butanone 78-93-3 [BUTANONE]	200	600	Time Weighted Average (TWA):	Indicative	ECTLV
Butanone 78-93-3 [BUTANONE]	300	900	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Butanone 78-93-3			Skin designation:	Can be absorbed through the skin.	TRGS 900
Butanone 78-93-3	200	600	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Butanone 78-93-3			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Ethyl formate 109-94-4			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Ethyl formate 109-94-4			Skin designation:	Can be absorbed through the skin.	TRGS 900
Ethyl formate 109-94-4	100	310	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
1,3-Dioxolane 646-06-0 1,3-Dioxolane	100	310	Exposure limit(s): Skin designation:	2 Even if the AGW and BGW values are complied with, there still may be a risk of reproductive damage (see Number 2.7). Can be absorbed through the	TRGS 900 TRGS 900

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646-06-0			skin.	
1,3-Dioxolane 646-06-0		Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value		Remarks		
			mg/l ppm mg/kg other				
Acetone	aqua		21 mg/l				
67-64-1	(intermittent		8				
	releases)						
Acetone	sewage		100 mg/l				
67-64-1	treatment plant		U				
	(STP)						
Acetone	sediment				30,4 mg/kg		
67-64-1	(freshwater)				, , ,		
Acetone	sediment				3,04 mg/kg		
67-64-1	(marine water)				e, e :		
Acetone	Soil				29,5 mg/kg		
67-64-1	Joh				2),5 mg/kg		
Acetone	aqua		10,6 mg/l				
67-64-1	(freshwater)		10,0 mg/1				
Acetone	aqua (marine		1,06 mg/l			1	
67-64-1	water)		1,00 mg/1				
Butanone	aqua		55,8 mg/l				
78-93-3	(freshwater)		55,0 mg/1				
Butanone	aqua (marine		55,8 mg/l				
78-93-3	water)		55,8 mg/1				
Butanone	aqua		55,8 mg/l				
78-93-3	(intermittent		55,8 mg/1				
/8-93-3	(internitient releases)						
Destances			709 mg/l				
Butanone 78-93-3	sewage		709 mg/1				
/8-93-3	treatment plant (STP)						
D ((STP) sediment				284.74		
Butanone					-).		
78-93-3	(freshwater)				mg/kg		
Butanone	sediment				284,7		
78-93-3	(marine water)				mg/kg		
Butanone	Soil				22,5 mg/kg		
78-93-3					1000		
Butanone	oral				1000		
78-93-3					mg/kg		
1,3-Dioxolane	aqua		19,7 mg/l				
646-06-0	(freshwater)						
1,3-Dioxolane	aqua (marine		1,97 mg/l				
646-06-0	water)						
1,3-Dioxolane	aqua		0,95 mg/l				
646-06-0	(intermittent						
	releases)						
1,3-Dioxolane	sediment				77,7 mg/kg		
646-06-0	(freshwater)						
1,3-Dioxolane	sediment				7,77 mg/kg		
646-06-0	(marine water)						
1,3-Dioxolane	Soil				2,62 mg/kg		
646-06-0							
1,3-Dioxolane	Sewage		1 mg/l				
646-06-0	treatment plant						

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Acetone 67-64-1	Workers	Inhalation	Acute/short term exposure - local effects		2420 mg/m3	
Acetone 67-64-1	Workers	dermal	Long term exposure - systemic effects		186 mg/kg	
Acetone 67-64-1	Workers	Inhalation	Long term exposure - systemic effects		1210 mg/m3	
Acetone 67-64-1	General population	dermal	Long term exposure - systemic effects		62 mg/kg	
Acetone 67-64-1	General population	Inhalation	Long term exposure - systemic effects		200 mg/m3	
Acetone 67-64-1	General population	oral	Long term exposure - systemic effects		62 mg/kg	
Butanone 78-93-3	Workers	dermal	Long term exposure - systemic effects		1161 mg/kg	
Butanone 78-93-3	Workers	inhalation	Long term exposure - systemic effects		600 mg/m3	
Butanone 78-93-3	General population	dermal	Long term exposure - systemic effects		412 mg/kg	
Butanone 78-93-3	General population	inhalation	Long term exposure - systemic effects		106 mg/m3	
Butanone 78-93-3	General population	oral	Long term exposure - systemic effects		31 mg/kg	
1,3-Dioxolane 646-06-0	Workers	dermal	Long term exposure - systemic effects		4,1 mg/kg	
1,3-Dioxolane 646-06-0	Workers	inhalation	Long term exposure - systemic effects		19 mg/m3	
1,3-Dioxolane 646-06-0	General population	oral	Long term exposure - systemic effects		75 mg/kg	
1,3-Dioxolane 646-06-0	General population	inhalation	Long term exposure - systemic effects		5,7 mg/m3	
1,3-Dioxolane 646-06-0	General population	dermal	Long term exposure - systemic effects		0,8 mg/kg	

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Acetone 67-64-1	acetone	Urine	Sampling time: End of shift.	80 mg/l	DE BGW		
Butanone 78-93-3	2-butanone	Urine	Sampling time: End of shift.	2 mg/l	DE BGW		

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Protective goggles Protective eye equipment should conform to EN166.

Skin protection: Suitable protective clothing Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance aerosol

Odor Odour threshold

pН

Melting point Solidification temperature Initial boiling point Flash point Evaporation rate Flammability Explosive limits lower upper Vapour pressure (50 °C (122 °F)) Vapour pressure (55 °C (131 °F)) Relative vapour density: Density (20 °C (68 °F)) Bulk density Solubility Solubility (qualitative) (20 °C (68 °F)) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity

aerosol liquid Off white Acetone No data available / Not applicable

Not applicable No data available / Not applicable No data available / Not applicable 56 °C (132.8 °F) -20 °C (-4 °F)Solvent Mixtures No data available / Not applicable No data available / Not applicable

1,8 %(V) 13,0 %(V) 764 mbar

961 mbar

No data available / Not applicable 0,8 g/cm3

No data available / Not applicable No data available / Not applicable Soluble

No data available / Not applicable Viscosity (kinematic) Explosive properties Oxidising properties

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

No data available / Not applicable

No data available / Not applicable

No data available / Not applicable

10.1. Reactivity

Reaction with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Acetone	LD50	5.800 mg/kg	rat	not specified
67-64-1				
Butanone	LD50	2.737 mg/kg	rat	not specified
78-93-3				
ethyl formate 109-94-4	LD50	1.850 mg/kg	rat	not specified

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Acetone 67-64-1	LD50	> 15.688 mg/kg	rabbit	Draize Test
Butanone 78-93-3	LD50	6.400 - 8.000 mg/kg	rabbit	not specified

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	-	Species	Method
CAS-No.	type			time		
Acetone	LC50	76 mg/l		4 h	rat	not specified
67-64-1						
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	274200 ppm	gas	4 h	rat	not specified
Propane 74-98-6	LC50	> 800000 ppm	gas	15 min	rat	not specified
Butanone 78-93-3	LC50	> 20 mg/l	vapour	4 h	rat	not specified

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Acetone 67-64-1	not irritating		guinea pig	not specified
Butanone 78-93-3	moderately irritating		rabbit	not specified

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Butanone 78-93-3	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	not specified
Butanone 78-93-3	not sensitising	Guinea pig maximisation test	guinea pig	not specified

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Acetone	negative	bacterial reverse	with and without		OECD Guideline 471
67-64-1		mutation assay (e.g Ames test)			(Bacterial Reverse Mutation Assay)
Acetone	negative	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
67-64-1	-	chromosome aberration test			Mammalian Chromosome Aberration Test)
Acetone	negative	mammalian cell	without		OECD Guideline 476 (In vitro
67-64-1		gene mutation assay			Mammalian Cell Gene Mutation Test)
Butane, n- (< 0.1 %	negative	bacterial reverse	with and without		OECD Guideline 471
butadiene)	-	mutation assay (e.g			(Bacterial Reverse Mutation
106-97-8		Ames test)			Assay)
Butane, n- (< 0.1 %	negative	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
butadiene)		chromosome			Mammalian Chromosome
106-97-8		aberration test			Aberration Test)
Propane	negative	bacterial reverse	with and without		OECD Guideline 471
74-98-6		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Propane	negative	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
74-98-6		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)
Butanone	negative	bacterial reverse	with and without		OECD Guideline 471
78-93-3		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Acetone	not carcinogenic	dermal	424 d	mouse	female	not specified
67-64-1			3 times per			
			week			

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	NOAEL P 21,4 mg/l NOAEL F1 21,4 mg/l			rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Acetone 67-64-1	NOAEL 900 mg/kg	oral: drinking water	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Butane, n- (< 0.1 % butadiene) 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Propane 74-98-6		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butanone 78-93-3	NOAEL 2500 ppm	inhalation	90 days 6 hours/day, 5 days/week	rat	not specified

Aspiration hazard:

No data available.

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Acetone 67-64-1	LC50	8.120 mg/l	96 h	1 1	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	96 h		not specified
Butanone 78-93-3	LC50	3.220 mg/l	96 h	1 1	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,3-Dioxolane 646-06-0	LC50	> 95,4 mg/l	96 h	1	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Acetone	EC50	8.800 mg/l	48 h	Daphnia pulex	OECD Guideline 202
67-64-1					(Daphnia sp. Acute
					Immobilisation Test)
Butane, n- (< 0.1 % butadiene)	EC50	14,22 mg/l	48 h		not specified
106-97-8		-			_
Butanone	EC50	5.091 mg/l	48 h	Daphnia magna	OECD Guideline 202
78-93-3					(Daphnia sp. Acute
					Immobilisation Test)
ethyl formate	EC50	120 mg/l	24 h	Daphnia magna	OECD Guideline 202
109-94-4		-			(Daphnia sp. Acute
					Immobilisation Test)
1,3-Dioxolane	EC50	> 772 mg/l	48 h	Daphnia magna	OECD Guideline 202
646-06-0					(Daphnia sp. Acute
					Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Acetone	NOEC	2.212 mg/l	28 d	Daphnia magna	OECD 211 (Daphnia
67-64-1					magna, Reproduction Test)

Toxicity (Algae):

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_		
Acetone 67-64-1	NOEC	530 mg/l	8 d	Microcystis aeruginosa	DIN 38412-09
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	96 h		not specified
Butanone 78-93-3	EC50	> 1.000 mg/l			OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3-Dioxolane 646-06-0	NOEC	877 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3-Dioxolane 646-06-0	ErC50	> 877 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Acetone	EC10	1.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
67-64-1					(Bacterial oxygen
					consumption test)
Butanone	EC 50	> 1.000 mg/l			OECD Guideline 209
78-93-3		_			(Activated Sludge,
					Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Butanone 78-93-3	readily biodegradable	aerobic	> 60 %		OECD 301 A - F
1,3-Dioxolane 646-06-0		aerobic	20 %		OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

SDS No.: 369109 V005.1 BONDERITE L-GP BND60A ACHESON known as PULVE BND 60A (FEDG) (Aerosol)

Hazardous substances CAS-No.	LogPow	Temperature	Method
Acetone 67-64-1	-0,24		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Butanone 78-93-3	0,29		not specified
ethyl formate 109-94-4	0,23		not specified
1,3-Dioxolane 646-06-0	-0,35		not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Acetone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
67-64-1	Bioaccumulative (vPvB) criteria.
Butane, n- (< 0.1 % butadiene)	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
106-97-8	Bioaccumulative (vPvB) criteria.
Propane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
74-98-6	Bioaccumulative (vPvB) criteria.
Butanone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
78-93-3	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

The product contains organic solvents which are insoluble in water. According to the requirements of the ATV regulations for the dis charge of wastewater from commercial and industrial plant, organic solvents which are immiscible with water can only be dis charged to an extent which corresponds to their solubility in water. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

080111

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1.	UN numbe	r		
	ADR	1950		
	RID	1950		
	ADN	1950		
	IMDG	1950		
	IATA	1950		
14.2.	UN proper	shipping name		
	ADR	AEROSOLS		
	RID	AEROSOLS		
	ADN	AEROSOLS		
	IMDG	AEROSOLS		
	IATA	Aerosols, flammable		
14.3.	Transport	Transport hazard class(es)		
	ADR	2.1		
	RID	2.1		
	ADN	2.1		
	IMDG	2.1		
	IATA	2.1		
14.4.	Packing gr	oup		
	ADR			
	RID			
	ADN			
	IMDG			
	IATA			
14.5.	Environme	ental hazards		
	ADR	not applicable		
	RID	not applicable		
	ADN	not applicable		
	IMDG	not applicable		
	IATA	not applicable		
14.6.	Special pre	ecautions for user		
	ADR	not applicable Tunnelcode: (D)		
	RID	not applicable		
	ADN	not applicable		
	IMDG	not applicable		
	IATA	not applicable		
14.7.	Transport i	Transport in bulk according to Annex II of Marpol and the IBC Code		
	not applicat	ble		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture VOC content 92,9 % (2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK:	WGK = 1, slightly water endangering product. Classification according to the mixture rules in German VwVwS regulation annex 4 from 27.July 2005
WGK:	WGK = 1, slightly water endangering mixture. Classification according to the mixture rules in German AwSV regulation annex 1, number 5.2 from 18. April 2017.

Storage class according to TRGS 510: 2B

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Further information:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.