

Version number 5

Revision: 15.02.2019

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

- 1.1 Product Identilier	-	1.1	Product identifier
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- Trade name: - 1.2 Relevant identified uses of the

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Ceramic spray

- 1.2 Relevant identified uses of the	
substance or mixture and uses advised against	Identified use: intended for professional use only!
- Application of the substance / the mixture	Coating
	ů – Elektrik Alektrik – Elektrik –
 - 1.3 Details of the supplier of the safety data - Manufacturer/Supplier: 	sheet Alexander BINZEL Schweißtechnik GmbH & Co.KG Postfach 10 01 53 / D-35331 Giessen Tel.: +49 (0) 6408 / 59-0 Fax: +49 (0) 6408 / 59-191 Mail: technischedokumentation@binzel-abicor.com
- Further information obtainable from: - 1.4 Emergency telephone number:	Technical Documentation Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen Langenbeckstraße 1; Gebäude 601; 55131 Mainz Tel. Nr.: +49 (0)6131 / 19 24 0 Universitätsmedizin der Johannes Gutenberg-Universität Mainz
SECTION 2: Hazards identification	
- 2.1 Classification of the substance or mixtur - Classification according to Regulation (EC) Aerosol 1 H222-H229 Extremely flammable Eye Irrit. 2 H319 Causes serious eye in STOT SE 3 H336 May cause drowsines	No 1272/2008 aerosol. Pressurised container: May burst if heated. rritation.
- 2.2 Label elements	
 Labelling according to Regulation (EC) No 1272/2008 	The product is classified and labelled according to the CLP regulation.
- Hazard pictograms	GHS02 GHS07
- Signal word	Danger
- Hazard-determining components of	
labelling:	acetone
- Hazard statements	H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
- Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards	
 Results of PBT and vPvB assessment PBT: 	Natapplicable
- YPVB:	Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

Description: Mixture: consisting of the following components. Dangerous components:				
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane	Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-50%	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-01-8 Reg.nr.: 01-2119474691-32	butane	Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-50%	

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	(Contd. of page
CAS: 78-93-3 butanone	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 2.5-10
EINECS: 201-159-0 Index number: 606-002-00-3	
Reg.nr.: 01-2119457290-43	
- Additional information:	For the wording of the listed hazard phrases refer to section 16.
SECTION 4: First aid measures	
- 4.1 Description of first aid measures	
- General information:	Immediately remove any clothing soiled by the product.
	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least
	hours after the accident.
	Do not leave affected persons unattended.
	Personal protection for the First Aider.
After inholation	Take affected persons out of danger area and lay down.
After inhalation:	In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
Alter Skill Collact.	Seek medical treatment in case of complaints.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
	Protect unharmed eve.
After swallowing:	If symptoms persist consult doctor.
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3 Indication of any immediate medical	
attention and special treatment needed	No further relevant information available.
SECTION 5: Firefighting measures	
SECTION 5. Threnghting measures	
5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For offety recency unquitable outinguiabin	Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishin	
agents: - 5.2 Special hazards arising from the	Water with full jet
substance or mixture	Nitrogen oxides (NOx)
	Carbon monoxide (CO)
	CO2
	Formation of toxic gases is possible during heating or in case of fire.
 5.3 Advice for firefighters 	
Protective equipment:	Do not inhale explosion gases or combustion gases.
- Additional information	Collect contaminated fire fighting water separately. It must not enter the sewage system.
	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
SECTION 6: Accidental release me	asures
6.1 Personal precautions, protective	
equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.
	Ensure adequate ventilation
	Avoid contact with skin and eyes Keep away from ignition sources.
6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
	Prevent from spreading (e.g. by damming-in or oil barriers).
6.3 Methods and material for containment	· · · · · · · · · · · · · · · · · · ·
and cleaning up:	Do not flush with water or aqueous cleansing agents
	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
~	See Section 13 for disposal information.
SECTION 7: Handling and storage	
	Store in cool, dry place in tightly closed receptacles.
7.1 Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace.
 7.1 Precautions for safe handling 	Encare geoa ventilation extrate non place.
7.1 Precautions for safe handling	Prevent formation of aerosols.
- Information about fire - and explosion	Prevent formation of aerosols.
- 7.1 Precautions for safe handling - Information about fire - and explosion protection:	



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		(Contd. of page 2)
	Protect against electrostatic charges.	(Conta: of page 2)
- 7.2 Conditions for safe storage, including ar		
- Storage:	· · · · · · · · · · · · · · · · · · ·	
- Requirements to be met by storerooms and		
receptacles:	Store only in the original receptacle.	
- Information about storage in one common	Observe official regulations on storing packagings with pressurised containers.	
 Information about storage in one common storage facility: 	Store away from foodstuffs.	
- Further information about storage		
conditions:	Protect from frost.	
	Store in dry conditions.	
	Keep container tightly sealed. Protect from heat and direct sunlight.	
	Recommended storage temperature: 5-30 °C	
- Storage class:	2 B	
- 7.3 Specific end use(s)	No further relevant information available.	
SECTION & Expedite controls/pars	ponel protection	
SECTION 8: Exposure controls/pers		
- Additional information about design of		
technical facilities:	No further data; see item 7.	
- 8.1 Control parameters		
- Ingredients with limit values that require mo	nitoring at the workplace:	
67-64-1 acetone		
WEL Short-term value: 3620 mg/m ³ , 1500 ppm		
Long-term value: 1210 mg/m³, 500 ppm		
106-97-8 butane		
WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm		
Carc (if more than 0.1% of buta-1.3-diene		
78-93-3 butanone	,	
WEL Short-term value: 899 mg/m ³ , 300 ppm		
Long-term value: 600 mg/m³, 200 ppm Sk, BMGV		
	WEL: EH40/2018	
- Regulatory information	WEL: EH40/2018	
- Regulatory information - Ingredients with biological limit values:	WEL: EH40/2018	
- Regulatory information - Ingredients with biological limit values: 78-93-3 butanone	WEL: EH40/2018	
- Regulatory information - Ingredients with biological limit values: 78-93-3 butanone BMGV 70 μmol/L Medium: urine	WEL: EH40/2018	
 Regulatory information Ingredients with biological limit values: 78-93-3 butanone BMGV 70 μmol/L Medium: urine Sampling time: post shift 	WEL: EH40/2018	
- Regulatory information - Ingredients with biological limit values: 78-93-3 butanone BMGV 70 μmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one		
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- Regulatory information - Ingredients with biological limit values: 78-93-3 butanone BMGV 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one - Additional information: - 8.2 Exposure controls - Personal protective equipment: - General protective and hygienic measures: - Respiratory protection: - Protection of hands:	The lists valid during the making were used as basis. The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. When used properly and under normal conditions, breathing protection is not required Use suitable respiratory protective device in case of insufficient ventilation. Filter A/P2 Respiratory protection - Gas filters and combination filters according to EN 141 Protective gloves Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ th preparation. Selection of the glove material on consideration of the penetration times, and the degradation After use of gloves apply skin-cleaning agents and skin cosmetics. Recommended thickness of the material: ≥ 0.5 mm Penetration time (min.): < 480 The selection of the suitable gloves does not only depend on the material, but also on	ne substance/ the rates of diffusion
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- Penetration time of glove material	(Contd. of page 3) The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
 As protection from splashes gloves made of the following materials are suitable: 	of Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10
- Eye protection:	Tightly sealed goggles
- Body protection:	Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034)
SECTION 9: Physical and chemical	properties
 - 9.1 Information on basic physical and chen - General Information - Appearance: 	nical properties
Form:	Aerosol
Colour:	White
- Odour:	Characteristic
- Odour threshold:	Not determined.
- pH-value:	Not determined.
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	Undetermined. Not applicable, as aerosol.*
- Flash point:	Not applicable, as aerosol.*
- Flammability (solid, gas):	Not applicable.
- Ignition temperature:	Not determined.
- Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Not determined.
- Explosion limits:	
Lower: Upper:	1.5 Vol % 13.0 Vol %
- Density at 20 °C: - Relative density	0.73 g/cm ³ Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not applicable.
- Solubility in / Miscibility with water:	Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity: Dynamic: Kinematic: - 9.2 Other information	Not determined. Not determined. No further relevant information available.

SECTION 10: Stability and reactivity - 10.1 Reactivity No further

-10.2 Chemical stability

- The mail decomposition / conditions to be
- avoided:
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid - 10.5 Incompatible materials:
- 10.6 Hazardous decomposition products:
- No further relevant information available.
- No decomposition if used according to specifications.
 - No dangerous reactions known.
 - No further relevant information available.
 - No further relevant information available.
- No dangerous decomposition products known.

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SECTION 11: Toxicological information

- 11.1 Information on		
- Acute toxicity	Based on available data, the classification criteria are not met.	
- LD/LC50 values relevent	ant for classification:	
67-64-1 acetone		
Oral LD50	,800 mg/kg (rat)	
Dermal LD50	0,000 mg/kg (rabbit)	
Inhalative LC50/4 h	6 mg/l (rat)	
78-93-3 butanone		
	,193 mg/kg (rat) (OECD 423)	
	5,000 mg/kg (rabbit) (OECD 402)	
	ng/l (Skeletonema costatum)	
	4 mg/l (rat)	
- Primary irritant effect		
- Skin corrosion/irrita		
- Serious eye damage		
- Respiratory or skin s	ensitisation Based on available data, the classification criteria are not met.	
- Germ cell mutagenic	genity, mutagenicity and toxicity for reproduction) ity Based on available data, the classification criteria are not met.	
- Carcinogenicity	Based on available data, the classification criteria are not met.	
- Reproductive toxicit		
- STOT-single exposu		
- STOT-repeated expo		
- Aspiration hazard	Based on available data, the classification criteria are not met.	
•		
SECTION 12: Ec	ological information	
- 12.1 Toxicity		
 Aquatic toxicity: 		
67-64-1 acetone		
IC50 20,000 mg	/I (rabbit)	
LC50/96 h 7,500 mg/	(Leuciscus idus (Aland))	
5,540 mg/	(Oncorhynchus mykiss (Regenbogenforelle))	
	(LEPOMUS MACROCHIRUS) (96h)	
-	(Selenastrum capricornutum) (96h)	
_	(daphnia) (48h)	
LC 50 20,000 mg		
	(I (daphnia)	
-	(Pseudomonas putida)	
	(Pseudokirchneriella subcapitata)	
74-98-6 propane		
	ALGAE) (96h)	
LC50 27.98 mg/	(fish) (96h)	
106-97-8 butane		
	ALGAE) (96h)	
	(fish) (96h)	
78-93-3 butanone		
	(Pimephales promelas) (96h; OECD 203)	
	(Pseudomonas putida) (16h; DIN 38412)	
- 12.2 Persistence and		
- 12.3 Bioaccumulativ		
- 12.4 Mobility in soil	No further relevant information available.	
 Additional ecologica General notes: 		abily bazardous for water
- General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slig Do not allow undiluted product or large quantities of it to reach gro	
	system.	and water, water course of sewaye
- 12.5 Results of PBT	ind vPvB assessment	
- PBT:	Not applicable.	
- vPvB:	Not applicable.	
		(Contd. on page 6)



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- 12.6 Other adverse effects

No further relevant information available.

(Contd. of page 5)

SECTION 13: Disposal conside	erations
- 13.1 Waste treatment methods - Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system Disposal according to official regulations
- European waste catalogue	
15 01 04 metallic packaging	
	(including halons) containing hazardous substances
5 1	es of or contaminated by hazardous substances
- Uncleaned packaging: - Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport inform	nation
- 14.1 UN-Number - ADR, IMDG, IATA	UN1950
- 14.2 UN proper shipping name	
ADR	1950 AEROSOLS
·IMDG	AEROSOLS
ΙΑΤΑ	AEROSOLS, flammable
14.3 Transport hazard class(es)	
- ADR	
Class	2 5F Gases.
- Label - IMDG, IATA	2.1
- Class - Label	2.1 2.1
- 14.4 Packing group - ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
- Danger code (Kemler):	- · · · · · · · · · · · · · · · · · · ·
- EMS Number: - Stowage Code	F-D,S-U 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 AEROSOL Category C, Clear of living quarters.
- Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivis of class 2.
- 14.7 Transport in bulk according to A Code	nnex II of Marpol and the IBC Not applicable.
- Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Executed Quantity
- Transport category	Not permitted as Excepted Quantity 2
Tunnel restriction code	D

- EN



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- IMDG 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity - UN "Model Regulation": UN 1950 AEROSOLS, 2.1 SECTION 15: Regulatory information - 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - Directive 2012/18/EU None of the ingredients is listed. - Seveso category P3a FLAMMABLE AEROSOLS - Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 - National regulations: - Information about limitation of use:			(Contd. of page 6)
SECTION 15: Regulatory information - 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - Directive 2012/18/EU None of the ingredients is listed. - Named dangerous substances - ANNEX I None of the ingredients is listed. - Seveso category P3a FLAMMABLE AEROSOLS - Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 - National regulations: Severation of colse of the substance or mixture	- Limited quantities (LQ)	Code: E0	
 - 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - Directive 2012/18/EU - Named dangerous substances - ANNEX I - Seveso category - Qualifying quantity (tonnes) for the application of lower-tier requirements for the application of upper-tier requirements - Qualifying quantity (tonnes) for the application of upper-tier requirements for the substance or mixture for the application of upper-tier requirements - REGULATION (EC) No 1907/2006 ANNEX XVII - National regulations: 	- UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	
- 15.2 Chemical safety assessment: Employment restrictions concerning pregnant and lactating women must be observed. A Chemical Safety Assessment has not been carried out.	 15.1 Safety, health and environmental regul Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII National regulations: Information about limitation of use: 	Iations/legislation specific for the substance or mixture None of the ingredients is listed. P3a FLAMMABLE AEROSOLS 150 t 500 t Conditions of restriction: 3 Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and laciating women must be observed. Employment restrictions concerning pregnant and laciating women must be observed.	

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

