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	tification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name: <u>CM Gru</u>	ndierung für Alu / Zink
No further relevant inf • Sector of Use SU21 Consumer uses SU22 Professional us • Product category PC9 • Process category PROC7 Industrial sp. PROC11 Non industri	d uses of the substance or mixture and uses advised against formation available. :: Private households / general public / consumers ses: Public domain (administration, education, entertainment, services, craftsmen) Da Coatings and paints, thinners, paint removers raying
 1.3 Details of the supple Manufacturer/Supplie MOTIP DUPLI GmbH Kurt Vogelsang Strass D-74855 Haßmershein Tel.: +49/6266/75-0 msds@de.motipdupli.c 	! е б п
Tel.:+49 6266-75-310	
Fax +49 6266-75-362	2 4:00 pm, Fr 08:00 am - 00:30 pm)
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0 SECTION 2: Haze • 2.1 Classification of th • Classification accordin GHS02 flam	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0 SECTION 2: Haze • 2.1 Classification of the Classification according of the Classificaticon according of the Classification according of the Cl	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0) SECTION 2: Haze • 2.1 Classification of the classification according • Classification according • GHS02 flam Aerosol 1 H222-H2 • GHS05 corr	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne 229 Extremely flammable aerosol. Pressurised container: May burst if heated.
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0 SECTION 2: Haze • 2.1 Classification of th • Classification accordi • GHS02 flam Aerosol 1 H222-H2 • GHS05 corr Eye Dam. 1 H318	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne 229 Extremely flammable aerosol. Pressurised container: May burst if heated.
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0 SECTION 2: Haze • 2.1 Classification of th • Classification accordi • GHS02 flam Aerosol 1 H222-H2 • GHS05 corr Eye Dam. 1 H318	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne 229 Extremely flammable aerosol. Pressurised container: May burst if heated. rosion Causes serious eye damage. Causes skin irritation.
Fax +49 6266-75-362 (Mo - Th 08:00 am - 0 SECTION 2: Haze 2.1 Classification of the Classification accordin Classification accordin GHS02 flam Aerosol 1 H222-H2 GHS05 corr Eye Dam. 1 H318 Current Classification GHS07 Skin Irrit. 2 H315	4:00 pm, Fr 08:00 am - 00:30 pm) ards identification the substance or mixture ng to Regulation (EC) No 1272/2008 ne 229 Extremely flammable aerosol. Pressurised container: May burst if heated. rosion Causes serious eye damage.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

· Dangerous components:		
CAS: 71-23-8	propan-1-ol	20-<25%
EINECS: 200-746-9	🚸 Flam. Liq. 2, H225	
Index number: 603-003-00-0	Eye Dam. 1, H318	
Reg.nr.: 01-211948-6761-29-xxxx	♦ STOT SE 3, H336	
CAS: 115-10-6	dimethyl ether	12.5-<20%
EINECS: 204-065-8	🚸 Flam. Gas 1A, H220	
Index number: 603-019-00-8	Press. Gas (Comp.), H280	
Reg.nr.: 01-2119472128-37		
		contd. on page 3)

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CAS: 67-64-1	acetone	Contd. of page 10-<12.5%
EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23	butanol Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<5%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32-0032	Carbon black substance with a Community workplace exposure limit	2.5-<5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	<2.5%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26	 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700-1000) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 	<2.5%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	<2.5%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	<2.5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol ♦ Flam. Liq. 3, H226 ♦ Eye Dam. 1, H318 ↑ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	<2.5%

• Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation:

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Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- *CO2*, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters -
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
- Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

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- Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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8.1 Control nonemators	(Contd. of pag
 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 	
71-23-8 propan-1-ol	
WEL Short-term value: 625 mg/m ³ , 250 ppm	
Long-term value: 500 mg/m ³ , 200 ppm	
Sk	
115-10-6 dimethyl ether	
WEL Short-term value: 958 mg/m ³ , 500 ppm	
Long-term value: 766 mg/m^3 , 400 ppm	
67-64-1 acetone	
WEL Short-term value: 3620 mg/m ³ , 1500 ppm	
Long-term value: 1210 mg/m ³ , 500 ppm	
78-83-1 butanol	
WEL Short-term value: 231 mg/m ³ , 75 ppm	
Long-term value: 154 mg/m ³ , 50 ppm	
106-97-8 butane	
WEL Short-term value: 1810 mg/m ³ , 750 ppm	
Long-term value: 1450 mg/m ³ , 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	
1333-86-4 Carbon black	
WEL Short-term value: 7 mg/m ³	
Long-term value: 3.5 mg/m ³	
108-65-6 2-methoxy-1-methylethyl acetate	
WEL Short-term value: 548 mg/m ³ , 100 ppm	
Long-term value: 274 mg/m ³ , 50 ppm Sk	
107-98-2 1-methoxy-2-propanol	
WEL Short-term value: 560 mg/m ³ , 150 ppm	
Long-term value: 375 mg/m ³ , 100 ppm	
Sk	
71-36-3 butan-1-ol	
WEL Short-term value: 154 mg/m ³ , 50 ppm Sk	
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: The lists valid during the making were used as basis.	
8.2 Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing	
Wash hands before breaks and at the end of work.	
Do not inhale gases / fumes / aerosols.	
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(Contd. of page 5) Avoid contact with the skin. Avoid contact with the eyes and skin. Avoid contact with the eyes. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter A2/P3 · Protection of hands: Protective gloves · Material of gloves Butyl rubber, BR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42-480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases. • Eye protection: Tightly sealed goggles

9.1 Information on basic physical and cl General Information	nemical properties	
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Not applicable, as aerosol.	
Flash point:	Not applicable, as aerosol.	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	365 °C (689 °F)	
Decomposition temperature:	Not determined.	

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Explosive properties:	Not determined.	
Explosion limits:		
Lower:	2.1 Vol %	
Upper:	26.2 Vol %	
Vapour pressure at 20 °C (68 °F):	4000 hPa (3000.2 mm Hg)	
Density at 20 °C (68 °F):	0.8 g/cm ³ (6.7 lbs/gal)	
Relative density	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:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	81.9 %	
Water:	0.3 %	
VOC (EC)		
	815.0 g/l	
VOC-EU%	84.00 %	
Solids content:	15.5 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/l (rat)
78-93-3 butanone		
Oral	LD50	>2193 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative LC50/4 h 34 mg/m3 (rat)		
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108-65-62	108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8530 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>10000 mg/m3 (rat)	
71-36-3 bi	utan-1-ol		
Oral	LD50	2292 mg/kg (rat)	
Dermal	LD50	3430 mg/kg (rabbit)	
Inhalative	LC50/4 h	17000 mg/m3 (rat)	
 Skin corro Causes ski Serious ey Causes sei Respirator May cause CMR effec Germ cell Carcinoge Reproduct STOT-sin May cause STOT-rep 	cts (carcinog mutagenicit micity Basec tive toxicity gle exposure e drowsiness eated expos	ion rritation mage. nsitisation skin reaction. genity, mutagenicity and toxicity for reproduction) ty Based on available data, the classification criteria are not met. d on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	

· 12.1 Toxicity	
• Aquatic toxicity:	
115-10-6 dimethyl ether	
EC50 / 96 h 155 mg/l (algae)	
LC50 / 48 h >4000 mg/l (daphnia magna)	
LC50/96 h >4000 mg/l (fish)	
67-64-1 acetone	
LC50/96h 8300 mg/l (fish)	
EC50/96h 7200 mg/l (algae)	
LC50 / 48 h 8450 mg/l (crustacean (water flea	())
78-93-3 butanone	
LC50 / 48 h 308 mg/l (daphnia magna)	
LC50 / 72 h 1972 mg/l (Pseudokirchneriella S	ubcapitata)
LC50/96 h 2990 mg/l (fish)	
108-65-6 2-methoxy-1-methylethyl acetate	
EC50 / 48 h >500 mg/l (daphnia magna)	
LC50/96 h 100-180 mg/l (oncorhynchus myk	iss / Regenbogenforelle)
71-36-3 butan-1-ol	
LC50 / 96 h 1376 mg/l (fish)	
12.2 Persistence and degradability No further	relevant information available.

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· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

×

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
15 01 04	metallic packaging	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	

· Uncleaned packaging:

• **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

14.1 UN-Number		
ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name		
ADR	1950 AEROSOLS	
IMDG	AEROSOLS	
IATA	AEROSOLS, flammable	
14.3 Transport hazard class(es)		
ADR		
Class	2 5F Gases.	
Label	2.1	
IMDG, IATA		
V		
Class	2.1	
Label	2.1	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Warning: Gases.	

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Hazard identification number (Kemler code	·): -
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre:
	Category A. For AEROSOLS with a capacity above 1 litre:
	Category B. For WASTE AEROSOLS: Category C, Clear of 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 subdivision of class 2.
14.7 Transport in bulk according to Annex	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (\widetilde{EQ})	Code: E0
1 1	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	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

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · Seveso category P3a FLAMMABLE AEROSOLS
- \cdot 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:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

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Relevant phrases	
H220 Extremely flammable gas.	
H225 Highly flammable liquid and vapour.	
H226 Flammable liquid and vapour.	
H280 Contains gas under pressure; may explode if he	atea.
H302 Harmful if swallowed.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H318 Causes serious eye damage.	
H319 Causes serious eye irritation.	
H335 May cause respiratory irritation.	
H336 May cause drowsiness or dizziness.	
Abbreviations and acronyms:	
	ndises dangereuses par chemin de fer (Regulations Concerning the
International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation	
	uses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)	uses par Route (European Agreement concerning the International
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling	g of Chemicals
EINECS: European Inventory of Existing Commercial Chemical S	ubstances
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemi	cal Society)
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1A: Flammable gases – Category 1A	
Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity - oral – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	2
STOT SE 3: Specific target organ toxicity (single exposure) – Cate	gory 5
* Data compared to the previous version altered.	