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SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
• Trade name: MOTIP Grundierung various colours
 Article number: 354854, 856181, 856198, M00101, M00102, M00103, M01611, M01612, M04053, M04054, M04055, M04056, M04086 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU21 Consumer uses: Private households / general public / consumers Product category PC9a Coatings and paints, thinners, paint removers Process category PROC7 Industrial spraying PROC11 Non industrial spraying Application of the substance / the mixture Priming
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: MOTIP DUPLI GmbH Kurt Vogelsang Strasse 6 D-74855 Haßmersheim Tel.: +49/6266/75-0 msds@de.motipdupli.com
 Further information obtainable from: Department Product Safety 1.4 Emergency telephone number: Tel.:+49 6266-75-310 Fax +49 6266-75-362 (Mo - Th 08:00 am - 04:00 pm, Fr 08:00 am - 00:30 pm)
SECTION 2: Hazards identification
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame
Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2H319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2) GB

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	(Contd. of page
Hazard p	nictograms
\wedge	\wedge
GHS02	GHS07
011502	01007
· Signal w	ord Danger
· Hazard-a	letermining components of labelling:
acetone	
n-butyl a	
	ry-1-methylethyl acetate
	tatements
H222-H2	229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
Precauti	onary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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.
P260	Do not breathe spray.
P410+P4	412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents / container in accordance with regional regulations.
Addition	al information:
	Repeated exposure may cause skin dryness or cracking.
	Contains maleic anhydride, 4-morpholinecarbaldehyde. May produce an allergic reaction.
	of explosive mixtures possible without sufficient ventilation.
· 2.3 Other	
	f PBT and vPvB assessment

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

CAS: 67-64-1	acetone	25-<50%
EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49		
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-, Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	10-<12.5%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-2 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220 Press. Gas (Comp.), H280	10-<12.5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-(Reg.nr.: 01-2119474691-32		5-<10%

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CAS: 9004-70-0	cellulose nitrate Flam. Sol. 1, H228	Contd. of page 2.5-<5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane	2.5-<5%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) 🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<2.5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319	<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: 4394-85-8 EINECS: 224-518-3 Reg.nr.: 01-2119987993-12	4-morpholinecarbaldehyde	≤ 0.5%

• 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.

xylene: Contains ethylbenzene CAS 100-41-4

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: Take affected persons out into the fresh air.
- · 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:
- Rinse opened eye for several minutes under running water. If symptoms persist, 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.
- \cdot 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.

- \cdot 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 -

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· 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: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: 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.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
67-64-1 acetone		
WEL Short-term value: 3620 mg/m ³ , 1500 ppm		
Long-term value: 1210 mg/m ³ , 500 ppm		
123-86-4 n-butyl acetate		
WEL Short-term value: 966 mg/m ³ , 200 ppm		
Long-term value: 724 mg/m ³ , 150 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)		
xylene		
WEL Short-term value: 441 mg/m ³ , 100 ppm		
Long-term value: 220 mg/m ³ , 50 ppm		
Sk; BMGV		
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64-17-5 ethanol	(Contd. of pag
WEL Long-term value: 1920 mg/m ³ , 1000 ppm	
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	
Ingredients with biological limit values:	
xylene	
BMGV 650 mmol/mol creatinine	
Medium: urine	
Sampling time: post shift	
Parameter: methyl hippuric acid	
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.	
Avoid contact with the eyes and skin.	
Avoid contact with the eyes.	
Respiratory protection:	
Not necessary if room is well-ventilated.	
In case of brief exposure or low pollution use respiratory filter device. In case o	of intensive or longer exposi
use self-contained respiratory protective device.	
Protection of hands:	
In case of contact with spray dust protective gloves made of butyl shoud be used	d (min. 0.4 mm thick), e.g.
KCL Camatril, article no. 898 or similar products	
Solvent resistant gloves	
Due to missing tests no recommendation to the glove material can be given for	the product/ the preparation
the chemical mixture.	
The glove material has to be impermeable and resistant to the product/ the subs	
Selection of the glove material on consideration of the penetration times, rates of decreduction	of diffusion and the
degradation Material of gloves	
Natural rubber, NR	
Butyl rubber, BR	
The selection of the suitable gloves does not only depend on the material, but al	so on further marks of aual
and varies from manufacturer to manufacturer. As the product is a preparation	
resistance of the glove material can not be calculated in advance and has there	
application.	×
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	
The exact break through time has to be found out by the manufacturer of the pro-	otective gloves and has to b
observed. En standard being the standard in some standard being the standard being the standard standard standard standard	a Tabanatan (
For the permanent contact in work areas without heightened risk of injury (e.	g. Laboratory) gloves made
of the following material are suitable:	
Natural rubber, NR	

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· Eye protection:

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Tightly sealed goggles

SECTION 9: Physical and chemical properties

0.1 Information on basis abusis al and a	homical mean antica
• 9.1 Information on basic physical and c • General Information	nemicai properties
· Appearance:	
Form:	Aerosol
Colour:	According to product specification
· Odour:	<i>Characteristic</i>
· 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.
· Explosive properties:	Not determined.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C (68 °F):	8300 hPa (6225.5 mm Hg)
• Density at 20 •C (68 •F):	0.84 g/cm ³ (7.01 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:	84.4 %
Water:	0.1 %
VOC (EC)	
	709.0 g/l
· VOC-EU%	84.36 %
· Solids content:	14.5 %
• 9.2 Other information	No further relevant information available.

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SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 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 ac		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/l (rat)
123-86-4 n	n-butyl aceta	ite
Oral	LD50	10800 mg/kg (rat) (OECD 401)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/m3 (rat)
xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	29000 mg/m3 (rat)
64-17-5 et	hanol	
Oral	LD50	10470 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	120 mg/l (rat)
108-65-62	e-methoxy-1	-methylethyl acetate
Oral	LD50	8530 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>10000 mg/m3 (rat)

· Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

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

· STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

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	N 12: Ecological information
12.1 Toxici	•
Aquatic tox	·
67-64-1 ace	
LC50/96h	8300 mg/l (fish)
EC50/96h	7200 mg/l (algae)
	a 8450 mg/l (crustacean (water flea))
xylene	
	7.4 mg/l (daphnia magna)
	n 13.5 mg/l (fish)
64-17-5 eth	
LC50/96h	13000 mg/l (oncorhynchus mykiss / Regenbogenforelle)
	n 12900 mg/l (algae)
	a 12340 mg/l (daphnia magna)
	-methoxy-1-methylethyl acetate
	n >500 mg/l (daphnia magna)
	100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle)
	tence and degradability No further relevant information available.
	c umulative potential No further relevant information available. ity in soil No further relevant information available.
Ecotoxical	
	armful to fish
	ecological information:
G eneral no Water haza	tes: rd class 2 (German Regulation) (Self-assessment): hazardous for water
	w product to reach ground water, water course or sewage system.
	Irinking water if even small quantities leak into the ground.
	aquatic organisms
12.5 Result PBT: Not a	s of PBT and vPvB assessment
vPvB: Not a	
	adverse effects No further relevant information available.
SECTIO	N 13: Disposal considerations
13.1 Waste Recommen	treatment methods dation
	disposed together with household garbage. Do not allow product to reach sewage system.
	vaste catalogue
-	waste paint and varnish containing organic solvents or other hazardous substances
	metallic packaging
	packaging containing residues of or contaminated by hazardous substances
Uncleaned Recommen	packaging: dation
	ust be made according to official regulations.
Contains 4-	morpholinecarbaldehyde. May produce an allergic reaction.
	l container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do no
	um over after use
pierce or bi	
pierce or bi Do not spra	arn, even after use. 19 on a naked flame or any incandescent material. explosive mixtures possible without sufficient ventilation.

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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	
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.
Danger code (Kemler):	-
EMS Number:	F- D , S - U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 little
	Category A. For AEROSOLS with a capacity above 1 lit
	Category B. For WASTE AEROSOLS: Category C, Clea
	of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 lit
	Segregation as for class 9. Stow "separated from" class
	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 Anne Marpol and the IBC Code	
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E0
-	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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

• Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

 \cdot 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:

· 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.

· Relevant phrases

H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent (Contd. on page 11) Page 11/11

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PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
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
Flam. Sol. 1: Flammable solids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
• * Data compared to the previous version altered.

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