

(Contd. on page 2)

EU

according to 1907/2006/EC, Article 31

Page 2/6 Printing date 24.06.2015 Revision: 27.03.2018 Version number 7

Trade name: MA 2004 dark blue

(Contd. of page 1) P241 Use explosion-proof electrical/ventilating/lighting/equipment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 Dispose of contents/container in accordance with local/regional/national/ P501 international regulations. · 2.3 Other hazards

power your pen

okumental

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: CAS: 64-17-5 ethanol 50-1008 EINECS: 200-578-6 🛞 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319 CAS: 107-98-2 1-methoxy-2-propanol 10-25% ò Flam. Liq. 3, H226; ሳ STOT SE 3, H336 EINECS: 203-539-1 C. I. Solvent Blue 4 < 0,1% Michler's Ketone CAS: 6786-83-0 2.5-10% EINECS: 229-851-8 🔶 Eye Dam. 1, H318; 🚸 Skin Sens. 1B, H317 Phosphoric acid mono-bis-(2-ethylhexyl)-ester CAS: 12645-31-7 2.5-10% EINECS: 235-741-0 🔶 Skin Corr. 1B, H314 C. I. Solvent Violet 8 CAS: 84281-86-7 ≤ 2,5% EINECS: 282-630-8 🚸 Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 4, H413

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

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

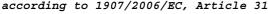
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · 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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- \cdot 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Wear protective clothing. · 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- · 6.4 Reference to other sections See Section 7 for information on safe handling.





Page 3/6 Printing date 24.06.2015 Revision: 27.03.2018 Version number 7

Trade name: MA 2004 dark blue

See Section 8 for information on personal protection equipment. See Section 13 for disposal information. (Contd. of page 2)

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- · 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:

107-98-2 1-methoxy-2-propanol (10-25%)

IOELV Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin

· 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. Avoid contact with the eyes and skin.
- · 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.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

(Contd. on page 4)

EU

according to 1907/2006/EC, Article 31



Trade name: MA 2004 dark blue

(Contd. of page 3)

SECTION 9: Physical and chemical proper	rties	
9.1 Information on basic physical and chemical p	roperties	
· General Information		
· Appearance: Form:	Liquid	
Colour:	Dark blue	
· Odour:	Product specific	
· Odour threshold:	Not determined.	
· Important information on protection of health and		
environment, and on safety.	-	
	-	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	78 °C	
· Flash point:	13 °C	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	287 °C	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
· Explosion limits:		
Lower:	1,7 Vol %	
Upper:	15,0 Vol %	
• Vapour pressure at 20 °C:	59 hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content: Organic solvents:	80,0 %	
Solids content: • 9.2 Other information	17,0 %	
· 9.2 Other information	The physical and chemical properties given in Section 9.1 are rough data only, which are	
	partially derived from the component's data of	
	the mixture. These data are no binding product	
	specifications.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

10.2 Chemical stability

- \cdot 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
- · LD/LC50 values relevant for classification:

84281-86-7 C. I. Solvent Violet 8

Oral LD50 700 mg/kg (rat)

(Contd. on page 5)

EU

okumental power your pen

Page 5/6 Printing date 24.06.2015 Revision: 27.03.2018 Version number 7

Trade name: MA 2004 dark blue

(Contd. of page 4)

EU

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation Sensitisation possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

6786-83-0 C. I. Solvent Blue 4 < 0,1% Michler's Ketone

- EC50 / 48h 0,025 mg/l (Daphnie)
- · 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- \cdot 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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. · Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1263
 14.2 UN proper shipping name ADR IMDG, IATA 	1263 PAINT PAINT
 14.3 Transport hazard class(es) 	
· ADR	
()	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
*	
· Class	3 Flammable liquids.
· Label	3
 14.4 Packing group ADR, IMDG, IATA 	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
	(Contd. on page 6)

according to 1907/2006/EC, Article 31



Trade name: MA 2004 dark blue

	(Contd. of page 5)
· Danger code (Kemler):	33
· EMS Number:	F-E, <u>S-E</u>
14.7 Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
• Transport category	2
• Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1263, PAINT, 3, II

SECTION 15: Regulatory information

 \cdot 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.
- · National regulations:

· Relevant phrases

· Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · 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
	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H302 Harmful if swallowed.
	H314 Causes severe skin burns and eye damage.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye damage. H319 Causes serious eye irritation.
	1
	H336 May cause drowsiness or dizziness.
	H413 May cause long lasting harmful effects to aquatic life.
•	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
	ICAO-TIL Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
	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)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	LDSD: LECHAL GOSE, SO PERCENT Flam. Lig. 2: Flammable liquids, Hazard Category 2
	Flam. Liq. 2.: Flammable liquids, Hazard Category 3
	Acute Tox. 4: Acute toxicity, Hazard Category 4
	Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
	Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
	Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
	Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
	Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
	Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
	STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
	Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4
•	* Data compared to the previous version altered.
	EU