

(Contd. on page 2)

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

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· 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.

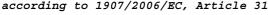
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist,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





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.

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· 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)

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:	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.
- \cdot 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

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

Trade name: MA 2004 dark blue

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.

(Contd. of page 4)

EU

- · 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 · Label	3 (F1) Flammable liquids. 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.

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 eve irritation.
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-TI: 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
ELINGS: EUROPean List of Notified chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
LCS0: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Lig. 2: Flammable liguids, Hazard Category 2
Flam, Lig. 3: 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
\cdot * Data compared to the previous version altered.
EU

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1 Identification

· Product identifier

- · Trade name: MA 3031 green
- Article number: 100000001171
- Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified
- · Application of the substance / the mixture alcohol based permanent marking ink
- \cdot Details of the supplier of the safety data sheet
- Manufacturer/Supplier: DOKUMENTAL GmbH & Co KG Schreibfarben Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49 (0)621/5402321 Fax + 49 (0)621/5402391 www. dokumental.de
- Information department: Technical Service, Dr. B. Polzin Tel.: +49-621-5402322 Mobile +49-1726204412 E-Mail: bernd.polzin@dokumental.de
- Emergency telephone number: 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

H336 May cause drowsiness or dizziness.

· Label elements

STOT SE 3

- · GHS label elements
 - The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling: propan-1-ol 1-Methoxy-2-propanol C.I. Basic Yellow 37
Hazard statements Flammable liquid and vapor. Causes serious eye damage. May cause drowsiness or dizziness.
Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection. Wear eye protection / face protection. Ground/bond container and receiving equipment. Use only non-sparking tools.

Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area.

(Contd. on page 2)

Safety Data Sheet



Trade name: MA 3031 green

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(Contd. of page 1) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. IF INHALED. Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of fire: Use for extinction: CO2, powder or water spray. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 3 Fire = 3Reactivity = 0**REACTIVITY** 0

Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

• Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents.

- Description: Mixture of the substances listed below with nonhazardous additions.
- Debet percent minetare of the Substances fibera befor with homazardoas address

• Dangerous	components:	
107-98-2	1-Methoxy-2-propanol	50-100%
71-23-8	propan-1-ol	25-50%
6358-36-7	C.I. Basic Yellow 37	<u> </u>
2390-60-5	C. I. Basic Blue 7	<u><</u> 1.0%
 Additional 	information: For the wording of the listed risk phrases refer to section 16.	

4 First-aid measures

- \cdot Description of first aid measures
- · 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. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

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

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

(Contd. on page 3)

US

Safety Data Sheet acc. to OSHA HCS



Page 3/8 Printing date 05/12/2015 Revision: 27.03.2018

Trade name: MA 3031 green

(Contd. of page 2)
 Environmental precautions:
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Ensure adequate ventilation.
 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.

7 Handling and storage

• Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- \cdot Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed. Protect from heat and direct sunlight.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

Control parameters

· ·	· Components with limit values that require monitoring at the workplace:				
	107-98-2 1-Methoxy-2-propanol (50-100%)				
	REL	Short-term value: 540 mg/m³, 150 ppm			
		Long-term value: 360 mg/m³, 100 ppm			
	TLV	Short-term value: 369 mg/m³, 100 ppm			
		Long-term value: 184 mg/m³, 50 ppm			
	71-2	3-8 propan-1-ol (25-50%)			
	PEL	Long-term value: 500 mg/m ³ , 200 ppm			
	REL	Short-term value: 625 mg/m³, 250 ppm			
		Long-term value: 500 mg/m³, 200 ppm			
		Skin			
	TLV	Long-term value: 246 mg/m³, 100 ppm			
•	Addi	tional information: The lists that were valid during the creation were used as basis.			
	Evno	sure controls			
	-	onal protective equipment:			
		ral protective and hygienic measures:			
		diately remove all soiled and contaminated clothing.			
	Wash	hands before breaks and at the end of work.			
	Avoi	d contact with the eyes.			
•		thing equipment:			
		ase of brief exposure or low pollution use respiratory filter device. In case of intensive or			
		er exposure use respiratory protective device that is independent of circulating air.			
•		ection of hands:			
		glove material has to be impermeable and resistant to the product/ the substance/ the			
		aration. to missing tests no recommendation to the glove material can be given for the product/ the			
		aration/ the chemical mixture.			
	PTED	aracion/ 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.

- US

Safety Data Sheet





Page 4/8 Printing date 05/12/2015 Revision: 27.03.2018

(Contd. of page 3)

Trade name: MA 3031 green

· Eye protection:



Tightly sealed goggles

Information on basic physical and chemical pro	operties
General Information	
Appearance: Form:	
Form: Color:	Fluid According to product specification
Odor:	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:	96 °C (205 °F)
Flash point:	23 °C (73 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	287 °C (549 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	1.7 Vol %
Upper:	13.5 Vol %
Vapor pressure at 20 °C (68 °F):	19 hPa (14 mm Hg)
Density at 20 °C (68 °F):	0.92 g/cm³ (7.677 lbs/gal)
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 at 20 °C (68 °F):	4.5 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	86.2 %
Solids content:	13.8 %
solids content:	No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

- \cdot Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)



Trade name: MA 3031 green

(Contd. of page 4)

Acute toxic	· Information on toxicological effects			
· LD/LC50 values that are relevant for classification:				
71-23-8 pro	pan-1-ol			
Oral	LD50	8000 mg/kg (rat)		
Dermal	LD50	4000 mg/kg (rab)		
Inhalative	LC50/4 h	9.8 mg/l (rat)		
6358-36-7 C	.I. Basic	Yellow 37		
Oral	LD50	3160 mg/kg (rat)		
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant • Carcinogenic categories				
IARC (Inter	national A	gency for Research on Cancer)		
None of the ingredients is listed.				
None of the	· NTP (National Toxicology Program)			
	al Toxicol			
NTP (Nation		nts is listed.		
NTP (Nation None of the	e ingredien	nts is listed. L Safety & Health Administration)		

12 Ecological information

Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

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

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

14 Transport information		
· UN-Number		
· DOT, ADR, IMDG, IATA	UN1263	
• UN proper shipping name		
· DOT	Paint	
· ADR	1263 Paint	
· IMDG, IATA	PAINT	
		(Contd. on page 6)
		US

Safety Data Sheet acc. to OSHA HCS



Page 6/8 Printing date 05/12/2015 Revision: 27.03.2018

Trade name: MA 3031 green

	(Contd. of pag
• Transport hazard class(es)	
· DOT	
A	
3	
· Class · Label	3 Flammable liquids 3
	, ,
· ADR	
V	
· Class	3 (F1) Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
 Packing group 	
· DOT, ADR, IMDG, IATA	III
• Environmental hazards:	
• Marine pollutant:	No
\cdot Special precautions for user	Warning: Flammable liquids
• Danger code (Kemler):	30
· EMS Number:	<i>F</i> - <i>E</i> , <u><i>S</i>-<i>E</i></u>
· Transport in bulk according to Annex 1	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· DOT · Quantity limitations	On passenger aircraft/rail: 60 L
guancity iimitations	On cargo aircraft only: 220 L
• ADR	· · · · · · · · · · · · · · · · · · ·
· ADR · Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
• IMDG	
· Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1263, Paint, 3, III

15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the \cdot Sara	substance or mixture
· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
	(Contd. on page 7)



Trade name: MA 3031 green

	(Contd. of pag
Chemical	s known to cause reproductive toxicity for males:
None of	the ingredients is listed.
Chemical	s known to cause developmental toxicity:
None of	the ingredients is listed.
DSL/NDSL	(Canada) All ingredients are listed
Cancerog	enity categories
EPA (Env	ironmental Protection Agency)
None of	the ingredients is listed.
TLV (Thr	eshold Limit Value established by ACGIH)
71-23-8	propan-1-ol
MAK (Ger	man Maximum Workplace Concentration)
-	the ingredients is listed.
	(National Institute for Occupational Safety and Health)
	the ingredients is listed.
	l elements
-	uct is classified and labeled according to the Globally Harmonized System (GHS). ictograms GHS05 GHS07
	ord Danger
Hazard-d	etermining components of labeling:
propan-1	
	y-2-propanol ic Yellow 37
	tatements
Flammabl	e liquid and vapor.
	erious eye damage. - drauginaga en digginaga
-	e drowsiness or dizziness. onary statements
	y from heat/sparks/open flames/hot surfaces No smoking.
Use expl	osion-proof electrical/ventilating/lighting/equipment.
	eathing dust/fume/gas/mist/vapors/spray
	tective gloves / eye protection / face protection. protection / face protection.
	ond container and receiving equipment.
	non-sparking tools.
-	cautionary measures against static discharge. outdoors or in a well-ventilated area.
	IN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
shower.	
-	es: Rinse cautiously with water for several minutes. Remove contact lenses, if present and do. Continue rinsing.
-	ely call a poison center/doctor.
IF INHAL	ED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	of fire: Use for extinction: CO2, powder or water spray.
Store lo Store in	cked up. a well-ventilated place. Keep container tightly closed.
Store in	a well-ventilated place. Keep cool.
Dispose	of contents/container in accordance with local/regional/national/international regulations
National	regulations:
Technica	l instructions (air):
Class	Share in %
NK	50-100
L	
	zard class: Water hazard class 2 (Self-assessment): hazardous for water.
Chemical	safety assessment: A Chemical Safety Assessment has not been carried out.
	Information
Other :	

```
\cdot Date of preparation / last revision <code>05/12/2015</code> / <code>14</code>
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Safety Data Sheet acc. to OSHA HCS



Page 8/8 Printing date 05/12/2015 Revision: 27.03.2018

Trade name: MA 3031 green

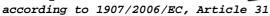
(Contd. of page 7)	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Flam. Liq. 3: Flammable liquids, Hazard Category 3	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
\cdot * Data compared to the previous version altered.	
- US -	

*



Page 1/7 Printing date 11.05.2015 Revision: 27.03.2018 Version number 16

-	2000/EC, ALLICIE SI	Version number 16
SECTION 1: I undertaking	dentification of the substance/mixture and of the company/	
• 1.1 Product ide	ntifier	
• Trade name: MA	<u>3020 red</u>	
 1.2 Relevant id Currently no su 		
	the supplier of the safety data sheet	
Manufacturer/Su DOKUMENTAL GmbH Woellnerstraße D-67065 Ludwigs Phone + 49(0)62 Fax + 49(0)621/ www. dokumental	& Co KG Schreibfarben 26 hafen 1/5402321 5402391	
	tion obtainable from:	
Tel.: +49-621-5 Mobile +49-1726	204412 olzin@dokumental.de elephone number: üro GmbH 84463	
GHS02	flame	
	H226 Flammable liquid and vapour.	
GHS08	health hazard	
Muta. 2	H341 Suspected of causing genetic defects.	
Carc. 2	H351 Suspected of causing cancer.	
GHS05	corrosion	
Eye Dam. 1	H318 Causes serious eye damage.	
GHS09	environment	
Aquatic Chronic	1 H410 Very toxic to aquatic life with long lasting effects.	
	W215 Characteristics in the interview	
Skin Irrit. 2 Skin Sens. 1	H315 Causes skin irritation.	
SKIN SENS. I STOT SE 3	H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.	
· 2.2 Label eleme		
	ding to Regulation (EC) No 1272/2008	
	classified and labelled according to the CLP regulation.	
	(Contd. on page 2)



GHS05

GHS0

Trade name: MA 3020 red

Hazard pictograms

• Signal word Danger

GHS02

	(Contd. of page 1)
•	
K	
S09	
1g:	

	Hazard-determin	ning components of labelling:		
	propan-1-ol			
	1-Methoxy-2-propanol			
	C. I. Solvent (Drange 3		
	C.I. Basic Red	1		
·	· Hazard statements			
	H226 Flammable	liquid and vapour.		
	H315 Causes ski	in irritation.		
	H318 Causes ser	rious eye damage.		
	H317 May cause	an allergic skin reaction.		
	H341 Suspected	of causing genetic defects.		
	H351 Suspected	of causing cancer.		
	H336 May cause	drowsiness or dizziness.		
	H410 Very toxic	c to aquatic life with long lasting effects.		
•	Precautionary s	statements		
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
	P303+P361+P353	IF ON SKIN (or hair): Remove/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.		
	P310	Immediately call a POISON CENTER/doctor.		
	P405	Store locked up.		
	P501	Dispose of contents/container in accordance with local/regional/national/		
		international regulations.		
•	2.3 Other haza	rds		
•	Results of PBT	and vPvB assessment		
	· PBT: Not applicable.			
	vPvB: Not appl:	icable.		

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• **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: 107-98-2	1-Methoxy-2-propanol	25-50%
EINECS: 203-539-1	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
CAS: 71-23-8	propan-1-ol	25-50%
EINECS: 200-746-9	🚸 Flam. Liq. 2, H225; 🚸 Eye Dam. 1, H318; 🚸 STOT SE 3, H336	
CAS: 989-38-8	C.I. Basic Red 1	2,5-10%
EINECS: 213-584-9	V Lye Dam. 1, 11510, V Inducte neare 1, 1100, Inducte entonic 1,	
	H410; 🚯 Acute Tox. 4, H302	
CAS: 85536-14-7	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.	2,5-10%
EINECS: 287-494-3	Skin Corr. 1C, H314; () Acute Tox. 4, H302; Aquatic Chronic 3,	
	H412	
CAS: 495-54-5	C. I. Solvent Orange 3	2,5-10%
EINECS: 207-803-7	Muta. 2, H341; Carc. 2, H351; 🚯 Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
· 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.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Page 3/7 Printing date 11.05.2015 Revision: 27.03.2018 Version number 16

(Contd. of page 2)

Trade name: MA 3020 red

• **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.

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- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Wear protective clothing.
6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. 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). 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. Prevent formation of aerosols.
 Information about fire - and explosion protection:
- Keep ignition sources away Do not smoke. Protect from heat. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight.
- · 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 (25-50%) Short-term value: 568 mg/m³, 150 ppm IOELV 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 skin. 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.



Trade name: MA 3020 red

· 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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties		
 General Information Appearance: 		
 Appearance: Form: Colour: Odour: Odour threshold: 	Fluid According to product specification Product specific Not determined.	
 Important information on protection of health an environment, and on safety. 	id _ _	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 96 °C	
· Flash point:	23 °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: Upper:	1,7 Vol % 13,5 Vol %	
• Vapour pressure at 20 °C:	19 hPa	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0,85 g/cm³ Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with water: 	Fully miscible.	
· Partition coefficient (n-octanol/water):	Not determined.	
 Viscosity: Dynamic at 20 °C: Kinematic: 	4,5 mPas Not determined.	
	(Contd. on page 5) EU	

(Contd. of page 3)

according to 1907/2006/EC, Article 31



Trade name: MA 3020 red

	(Contd. of page 4)
· Solvent content:	
Organic solvents:	81,7 %
Solids content:	11,9 %
• 9.2 Other information	No further relevant information available.

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:

71-23-8 pro Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rab)
Inhalative	LC50/4 h	9,8 mg/l (rat)
989-38-8 C.I. Basic Red 1		
Oral	LD50	250 mg/kg (rat)
85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.		
Oral	LD50	1350 mg/kg (rat)

 \cdot 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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Muta. 2, Carc. 2

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

989-38-8 C.I. Basic Red 1 EC50 / 48h 0,1-0,5 mg/l (Daphnie) LC50 / 96h 1-5 mg/l (Fish) · 12.2 Persistence and degradability No further relevant information available. • 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects: · Remark: Very toxic for fish · 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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

(Contd. on page 6)



Trade name: MA 3020 red

(Contd. of page 5)

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	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (chrysoidine, xanthene dye, red), MARINE POLLUTANT
· IATA	PAINT
 14.3 Transport hazard class(es) ADR 	
· Class · Label	3 (F1) Flammable liquids. 3
· INDG	
· Class · Label	3 Flammable liquids. 3
· Class · Label	3 Flammable liquids. 3
 14.4 Packing group ADR, IMDG, IATA 	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: xanthene dye, red, chrysoidine
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
 14.6 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids. 30 F-E, <u>S-E</u>
 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	o f Not applicable.
• Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
 Transport category Tunnel restriction code 	3 D/E
	(Contd. on page 7) EU



Page 7/7 Printing date 11.05.2015 Revision: 27.03.2018 Version number 16

Trade name: MA 3020 red

(Contd. of page 6)

EU

· IMDG	
 Limited quantities (LQ) 	5L
• Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Remarks:	1263 Paint (dye-stuff C.I. Solvent Orange 3),
	Marine Pollutant
· UN "Model Regulation":	UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · National regulations:

· Technical instructions (air):

1001111041	111001 40010112
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

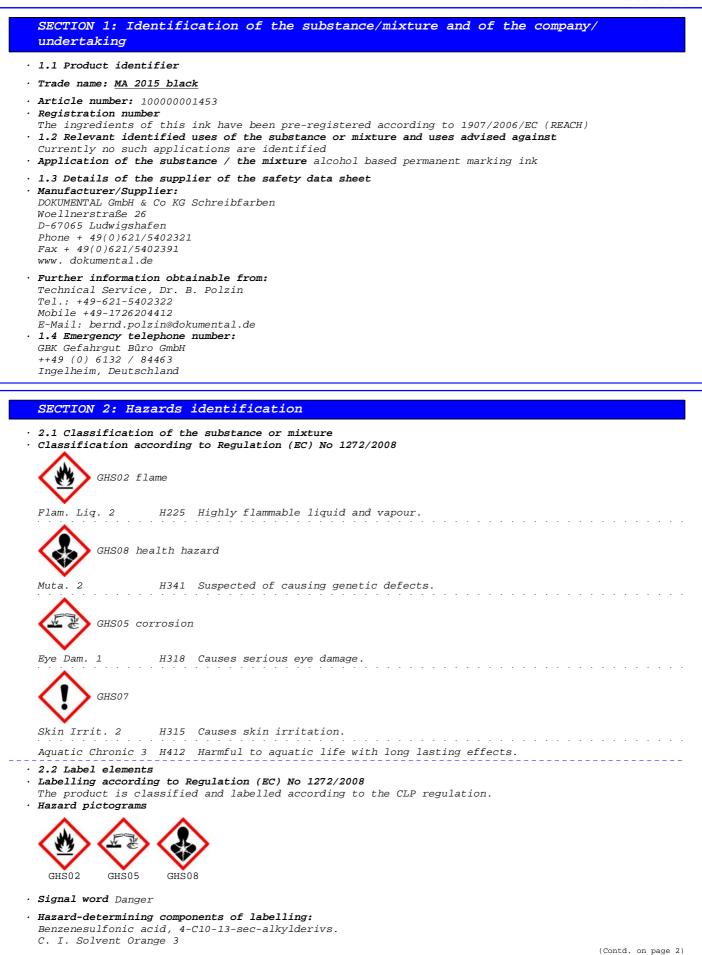
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· 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. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful 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 ICAO-TI: 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) MTDG: 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 Chemica LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 CAS: Chemical Abstracts Service (division of the American Chemical Society) Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
* Data compared to the previous version altered.



Page 1/7 Printing date 16.06.2015 Revision: 27.03.2018 Version number 8



according to 1907/2006/EC, Article 31



Trade name: MA 2015 black

	(Contd. of page 1)
•	Hazard statements
	H225 Highly flammable liquid and vapour.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H341 Suspected of causing genetic defects.
	H412 Harmful to aquatic life with long lasting effects.
·	Precautionary statements
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	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.
	P310 Immediately call a POISON CENTER/doctor.
	P405 Store locked up.
	P501 Dispose of contents/container in accordance with local/regional/national/
	international regulations.
•	Additional information:
	EUH208 Contains C. I. Solvent Blue 4 < 0,1% Michler's Ketone. May produce an allergic reaction.
•	2.3 Other hazards
•	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.

CAS: 64-17-5	ethanol	50-100%
EINECS: 200-578-6	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	
CAS: 107-98-2	1-methoxy-2-propanol	2,5-10%
EINECS: 203-539-1		
CAS: 85536-14-7	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.	2,5-10%
EINECS: 287-494-3	Skin Corr. 1C, H314; 🚯 Acute Tox. 4, H302; Aquatic Chronic 3, H412	
CAS: 84281-86-7	C. I. Solvent Violet 8	2,5-10%
EINECS: 282-630-8	Aquatic Chronic 4, H413	
CAS: 495-54-5	C. I. Solvent Orange 3	<u>≤</u> 2,5%
EINECS: 207-803-7	Muta. 2, H341; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 6786-83-0	C. I. Solvent Blue 4 < 0,1% Michler's Ketone	<u><</u> 1,0%
EINECS: 229-851-8	♦ Eye Dam. 1, H318; ♦ Skin Sens. 1B, H317	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · After inhalation:
- In case of unconsciousness place patient stably in side position for transportation.
- · 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: 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

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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Page 3/7 Printing date 16.06.2015 Revision: 27.03.2018 Version number 8

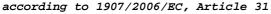
Trade name: MA 2015 black

<pre>(Contd. of page Wear protective clothing. • 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. 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). 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.</pre>	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 from heat. 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. Protect from heat and direct sunlight. 7.3 Specific end use(s) No further relevant information available. 	
• 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 (2,5-10%)	
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 skin. 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	

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation $% \left({{{\left[{{{c_1}} \right]}_{i_1}}} \right)$

· 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.





(Contd. of page 3)

Trade name: MA 2015 black

- 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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Fluid	
Colour:	According to product specification	
· Odour:	Product specific	
· Odour threshold:	Not determined.	
 Important information on protection of health a 	and	
environment, and on safety.	-	
	-	
· <i>p</i> H-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:	84,6 %	
Solids content:	9,6 %	
· 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.
- \cdot 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 5) EU

according to 1907/2006/EC, Article 31



Page 5/7 Printing date 16.06.2015 Revision: 27.03.2018 Version number 8

Trade name: MA 2015 black

10.5 Incompatible materials: No further relevant information available.
 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 4)

EU

- SECTION 11: Toxicological information
- · 11.1 Information on toxicological effects
- Acute toxicity

LD/LC50 values relevant for classification:

85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

Oral LD50 1350 mg/kg (rat)

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

Oral LD50 700 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Strong irritant with the danger of severe eye injury.
- · Respiratory or skin sensitisation No sensitising effects known.
- 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
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Muta. 2

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

- · 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	
ADR, IADG, IAIA	011205	
 14.2 UN proper shipping name 		
· ADR	1263 PAINT	
· IMDG, IATA	PAINT	
· 14.3 Transport hazard class(es)		
· ADR		
· Class	3 (F1) Flammable liquids.	
	(Contd. on page	a 6)



Trade name: MA 2015 black

	(Contd. of pa
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.
Danger code (Kemler):	33
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
14.7 Transport in bulk according to Anne	
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
Transport satosom	Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
IMDG Limited quantities (LQ)	51,
Excepted quantities (EQ)	5L Code: E2
Incepted quantities (Ex)	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

· 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 2 (Self-assessment): 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.

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. Abbreviations and acronyms:

International Transport of Dangerous Goods by Rail)



Page 7/7 Printing date 16.06.2015 Revision: 27.03.2018 Version number 8

EU

Trade name: MA 2015 black

	(Contd.	of page 6)
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	1.5.
	ICAO: International Civil Aviation Organisation	
	ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internationa	al 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	
	Flam. Liq. 2: Flammable liquids, Hazard Category 2	
	Flam. Liq. 3: Flammable liquids, Hazard Category 3	
	Acute Tox. 4: Acute toxicity, Hazard Category 4	
	Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C	
	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. 1B: Sensitisation - Skin, Hazard Category 1B	
	Muta. 2: Germ cell mutagenicity, Hazard Category 2	
	STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
	Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	
	Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1	
	Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
	Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4	
•	\cdot * Data compared to the previous version altered.	