according to 1907/2006/EC, Article 31

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

- · 1.1 Product identifier
- · Trade name: MA 3012 black
- · Article number: 10000001129
- · Registration number

The ingredients of this product meet the criteria of the Regulation 1907/2006/EC (REACH).

- · 1.2 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 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

DOKUMENTAL GmbH & Co KG Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49(0)621/37702 321 Fax + 49(0)621/37702 391 www.dokumental.de

· Further information obtainable from:

Technical Service & Product Safety Tel.: +49-621-37702 390

E-Mail: msds@dokumental.de
• 1.4 Emergency telephone number:

GBK Gefahrgut Büro GmbH +49 (0) 6132 / 84463 Ingelheim, Deutschland

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- \cdot Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
- \cdot Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

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Trade name: MA 3012 black

· Hazard pictograms











· Signal word Danger

· Hazard-determining components of labelling:

propan-1-ol

Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

1-methoxy-2-propanol C.I. Solvent Orange 3

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P310

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

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol ♠ Flam. Liq. 3, H226; ♠ STOT SE 3, H336	25-<508
CAS: 71-23-8 EINECS: 200-746-9 Reg.nr.: 01-2119486761-29	propan-1-ol ♠ Flam. Liq. 2, H225; ♠ Eye Dam. 1, H318; ♠ STOT SE 3, H336	25-<50%
CAS: 85536-14-7 EINECS: 287-494-3 Reg.nr.: 01-2119490234-40	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs. Skin Corr. 1C, H314; Acute Tox. 4, H302; Aquatic Chronic 3, H412	5-<10%
CAS: 561-41-1 EINECS: 209-218-2 Reg.nr.: 01-2119979581-25	C.I. Solvent Violet 8 Alternative CAS number: 52080-58-7 Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	1-<3%
CAS: 495-54-5 EINECS: 207-803-7 Reg.nr.: 01-2120754909-37	C.I. Solvent Orange 3 Muta. 2, H341; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315	1-<3%
CAS: 6786-83-0 EINECS: 229-851-8 Reg.nr.: 01-2119950688-22	C.I. Solvent Blue 4 < 0,1% Michler's Ketone Eye Dam. 1, H318; Skin Sens. 1B, H317	0.1-<18

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

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

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

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· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- \cdot 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:

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.

 \cdot 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.

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· 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.

· Hand protection



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

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

· 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.

Nitrile rubber, NBR · 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/face protection



· Appearance: Form:

Tightly sealed goggles

SECTION 9: Physical and chemical properties		
· 9.1 Information on basic physical and chemical pro	operties	
· General Information		
· Physical state	Fluid	
· Colour:	According to product specification	
· Odour:	Product specific	
· Odour threshold:	Not determined.	
· Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and		
boiling range	96.5-97.5 °C (71-23-8 propan-1-ol)	
· Flammability	Flammable.	
· Lower and upper explosion limit		
· Lower:	1.7 Vol % (107-98-2 1-methoxy-2-propanol)	
· Upper:	13.5 Vol % (71-23-8 propan-1-ol)	
· Flash point:	23 °C (71-23-8 propan-1-ol)	
· Ignition temperature:	287 °C (107-98-2 1-methoxy-2-propanol)	
· Decomposition temperature:	Not determined.	
· pH	Not determined.	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	5.8 mPas	
· Solubility		
· water:	Fully miscible.	
· Partition coefficient n-octanol/water (log value)		
· Vapour pressure at 20 °C:	19 hPa (71-23-8 propan-1-ol)	
Density and/or relative density		
· Density at 20 °C:	0.9 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· 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 mixture. These data are no binding product	

specifications.

Fluid

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Important information on protection of health as	nd
environment, and on safety.	-
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	79.8 %
Solids content:	13.8 %
Change in condition	
Evaporation rate	Not determined.
classes Explosives	none
Explosives	none
Flammable gases	none
Aerosols	none
Oxidising gases	none
Gases under pressure	none
Flammable liquids	Flammable liquid and vapour.
Flammable solids	none
Self-reactive substances and mixtures	none
Pyrophoric liquids	none
Pyrophoric solids	none
Self-heating substances and mixtures	none
Substances and mixtures, which emit flammable	
gases in contact with water	none
Oxidising liquids	none
Oxidising solids	none
Organic peroxides	none
Corrosive to metals	none
Desensitised explosives	none

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 hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

 LD/LC50 values relevant for classificat 	ion:
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107-98-2 1-methoxy-2-propanol Oral LD50 4,016 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Suspected of causing genetic defects.
- · 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.
- \cdot 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.

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- · 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- \cdot 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: 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. Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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 or ID number	
· ADR, IMDG, IATA	UN1263

· 14.2 UN proper shipping name

- ADR 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
- IMDG PAINT, MARINE POLLUTANT
- IATA PAINT

- · 14.3 Transport hazard class(es)
- · ADR





• Class
• Label

3 (F1) Flammable liquids.
3

· IMDG





· Class 3 Flammable liquids. · Label 3

· IATA



ClassLabelJammable liquids.

· 14.4 Packing group

· ADR, IMDG, IATA

• 14.5 Environmental hazards: Product contains environmentally hazardous substances: chrysoidine

• Marine pollutant: Symbol (fish and tree)

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· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	A
· 14.7 Maritime transport in bulk according t	o IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· 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
· Transport category	3
· Tunnel restriction code	D/E
· 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
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- \cdot Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- \cdot REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 \cdot Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	≥ 75

- · 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.

 ${\it H314}$ Causes severe skin burns and eye damage.

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     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.
· Date of previous version: 22.03.2023
· Version number of previous version: 1
     Abbreviations and acronyms:
    ADDreviations 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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

INDO: International Maritims Code for Dangerous Code
     CATTIAGE OF Langerous 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
   D50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

VPVB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1C: Skin corrosion/irritation - Category 1C

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1B: Skin sensitisation - Category 1B

Muta. 2: Germ cell mutagenicity - Category 1

Muta. 2: Germ cell mutagenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.
    * Data compared to the previous version altered.
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