FABER-CASTELL since 1761

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

## Multimark Permanent Ink Blue



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

### 1.1. Product identifier

Multimark Permanent Ink Blue

**Further trade names**

Included in :
Bundle 205061
Multimark Permament 151351, 152351, 152551

UFI: 0HAA-1EQK-SD9W-UFF3

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture**

Ink in writing instrument

### 1.3. Details of the supplier of the safety data sheet

| | | | |
|---|---|---|---|
| Company name: | Faber-Castell AG<br>Germany | | |
| Street: | Nürnberger Str. 2 | | |
| Place: | D-90546 Stein | | |
| Telephone: | +49 911 9965 0 | Telefax: | +49 911 9965 5612 |
| E-mail: | info@faber-castell.com | | |
| Contact person: | Dr. Gerhard Lugert | Telephone: | +49 911 9965 5550 |
| E-mail: | Gerhard.Lugert@faber-castell.com | | |
| Internet: | www.faber-castell.com | | |
| Responsible Department: | R & D Chemistry | | |

### 1.4. Emergency telephone number:

+49 (0) -911-9965 5550
+49 (0) -911-61 64 26

**Further Information**

Recipe No.: 12/0363
Lab No.: GMp-Gr-63

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008 (CLP)**

Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008 (CLP)**

**Hazard components for labelling**

1-methoxy-2-propanol; monopropylene glycol methyl ether
butanone; ethyl methyl ketone

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash Face, hands and all exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use Water. Carbon dioxide (CO2). Dry chemical. to extinguish.
Collect spillage.
Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

**Special labelling of certain mixtures**

1 - < 5 % of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).
1 - < 5 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).

### 2.3. Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Alcohol-based inks with dyestuff and additives.

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008 (CLP)) | | | |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | | | 40 - < 45 % |
| | 203-539-1 | 603-064-00-3 | 01-2119457435-35 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 | | | |
| 64-17-5 | ethanol, ethyl alcohol | | | 30 - < 35 % |
| | 200-578-6 | 603-002-00-5 | 01-2119457610-43 | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 H319 | | | |
| 1325-86-6 | Solvent Blue 5 | | | 5 - < 10 % |
| | Acute Tox. 4, Eye Dam. 1; H302 H318 | | | |
| 78-93-3 | butanone; ethyl methyl ketone | | | 1 - < 5 % |
| | 201-159-0 | 606-002-00-3 | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 107-98-2 | 203-539-1 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | 40 - < 45 % |
| | dermal: LD50 = 11000 mg/kg; oral: LD50 = > 5000 mg/kg | | |
| 64-17-5 | 200-578-6 | ethanol, ethyl alcohol | 30 - < 35 % |
| | inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg | | |
| 1325-86-6 | | Solvent Blue 5 | 5 - < 10 % |
| | oral: ATE = 500 mg/kg | | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

Show this safety data to the medicating physician.

**After inhalation**

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After contact with skin**

Wash with warm water and soap. Change contaminated clothing.

**After contact with eyes**

Wash eyes when eyelid opened with soft and clean water for 15 minutes. Call an oculist, particularly if redness, pain or visual impairment occur.

**After ingestion**

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Water. Carbon dioxide (CO2). Dry chemical. Sand.

**Unsuitable extinguishing media**

For this substance / preparation no extinguishing agent restriction exist.

### 5.2. Special hazards arising from the substance or mixture

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit. Water spray may be used to cool closed containers. Heating causes rise in pressure with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**General advice**

Avoid contact with skin and clothes. Avoid contact with skin. Change contaminated clothing. Wear personal protection equipment. Keep away unguarded persons. Remove all sources of ignition. Provide adequate ventilation.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Information for safe handling, see section 7.
Information for personal protectice equipment, see section 8.
Information for disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Avoid contact with skin and clothes. Avoid contact with skin. Change contaminated clothing. Keep container tightly closed. Secure an adequate ventilation. Emergency eye showers should be directly close-by.

**Advice on protection against fire and explosion**

Avoid sparks, flames and electrostatic charging. Use non-sparking tools. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

**Further information on handling**

Keep away from food, beverages and feeding stuff. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.
Recommended storage temperatur: 5 - 35 °C

**Hints on joint storage**

Store separated from oxidizing agents. Keep away from food, beverages and feeding stuff. Do not store together with: Material, rich in oxygen, oxidizing.

**Further information on storage conditions**

Protect against: heat.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 107-98-2 | 1-Methoxypropan-2-ol | 100 | 375 | | TWA (8 h) | WEL |
| | | 150 | 560 | | STEL (15 min) | WEL |
| 78-93-3 | Butan-2-one (methyl ethyl ketone) | 200 | 600 | | TWA (8 h) | WEL |
| | | 300 | 899 | | STEL (15 min) | WEL |
| 64-17-5 | Ethanol | 1000 | 1920 | | TWA (8 h) | WEL |

**Biological Monitoring Guidance Values (EH40)**

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|---|---|---|---|---|---|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine | Post shift |

**DNEL/DMEL values**

| CAS No | Substance | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | | | |
| Worker DNEL, long-term | | inhalation | systemic | 369 mg/m³ |
| Worker DNEL, acute | | inhalation | systemic | 553,5 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 553,5 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 183 mg/kg bw/day |
| 64-17-5 | ethanol, ethyl alcohol | | | |
| Worker DNEL, acute | | inhalation | systemic | 1900 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 343 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 950 mg/m³ |
| Consumer DNEL, long-term | | oral | systemic | 87 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 206 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 114 mg/m³ |

**PNEC values**

| CAS No | Substance |
|---|---|
| Environmental compartment | Value |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether |
| Freshwater | 10 mg/l |
| Freshwater (intermittent releases) | 100 mg/l |
| Marine water | 1 mg/l |
| Freshwater sediment | 52,3 mg/kg |
| Marine sediment | 5,2 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l |
| Soil | 4,59 mg/kg |
| 64-17-5 | ethanol, ethyl alcohol |
| Freshwater | 0,96 mg/l |
| Marine water | 0,79 mg/l |
| Freshwater sediment | 3,6 mg/l |
| Micro-organisms in sewage treatment plants (STP) | 580 mg/l |
| Soil | 0,63 mg/l |
| Air | 2,75 mg/l |

**Additional advice on limit values**

Keep away fire.

## 8.2. Exposure controls

**Appropriate engineering controls**

Additional information: TA-Luft: Klasse III
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Solvent-resistant gloves (PVA/H4).

**Skin protection**

Body protection must be chosen depending on activity and possible exposure, eg Apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**Respiratory protection**

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**Environmental exposure controls**

Do not allow the product to enter the drains. Do not discharge into the subsoil / soil.

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | liquid |
| Colour: | blue |
| Odour: | alcoholic |
| Melting point/freezing point: | <-20 °C |

| | |
|---|---|
| Boiling point or initial boiling point and boiling range: | > 80 °C |
| Flammability: | No data available. |
| Lower explosion limits: | 1,8 vol. % |
| Upper explosion limits: | 15 vol. % |
| Flash point: | > 21 °C |
| Auto-ignition temperature: | 270 °C |
| Decomposition temperature: | No data available. |
| pH-Value: | 6 |
| Viscosity / kinematic: | No data available. |
| Water solubility: | miscible. |
| Solubility in other solvents | |
| Miscible with: Ethanol. Water. | |
| Partition coefficient n-octanol/water: | No data available. |
| Vapour pressure: (at 20 °C) | 58 hPa |
| Vapour pressure: (at 50 °C) | 293 hPa |
| Density (at 20 °C): | 0,8 g/cm³ |
| Bulk density: | No data available. |
| Relative vapour density: | No data available. |

**9.2. Other information**

**Information with regard to physical hazard classes**

| | |
|---|---|
| Explosive properties | |
| Vapours may form explosive mixtures with air. | |
| Sustaining combustion: | Sustaining combustion |
| Self-ignition temperature | |
| Solid: | No data available. |
| Gas: | No data available. |
| Oxidizing properties | |
| Non-oxidizing. | |

**Other safety characteristics**

| | |
|---|---|
| Evaporation rate: | No data available. |
| Solvent separation test: | No data available. |
| Solvent content: | 78,63 % |
| Solid content: | 18,35 % |
| Sublimation point: | No data available. |
| Softening point: | No data available. |
| Pour point: | No data available. |
| | No data available. |
| Viscosity / dynamic: (at 20 °C) | 3,3 mPa·s |
| Flow time: | No data available. |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

No decomposition, if the regulations/references for storage and handling are respected.

**10.3. Possibility of hazardous reactions**

No data available.

### 10.4. Conditions to avoid

Avoid sparks, flames and electrostatic charging.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 (CLP)

**ATEmix calculated**

ATE (oral) 8401 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

**Acute toxicity**

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | IUCLID | |
| | dermal | LD50 11000 mg/kg | Rabbit | | |
| 64-17-5 | ethanol, ethyl alcohol | | | | |
| | oral | LD50 6200 mg/kg | Rat | IUCLID | |
| | inhalation (4 h) vapour | LC50 95,6 mg/l | Rat | RTECS | |
| 1325-86-6 | Solvent Blue 5 | | | | |
| | oral | ATE 500 mg/kg | | | |

**Irritation and corrosivity**

Primary irritation:
Irritant effect on the skin: none known

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | | | | | |
| | Acute fish toxicity | LC50 4600 - 10000 mg/l | 96 h | Leuciscus idus | IUCLID | |
| | Acute algae toxicity | ErC50 > 1000 mg/l | 72 h | Selenastrum capricornutum | | |
| | Acute crustacea toxicity | EC50 > 500 mg/l | 48 h | Daphnia magna | IUCLID | |
| 64-17-5 | ethanol, ethyl alcohol | | | | | |
| | Acute crustacea toxicity | EC50 9268 - 14221 mg/l | 48 h | Daphnia magna | IUCLID | |

### 12.2. Persistence and degradability

No data available.

**12.3. Bioaccumulative potential**

No data available.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | -0,437 |
| 64-17-5 | ethanol, ethyl alcohol | -0,31 |

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REGULATION (EC) NO 1907/2006 (REACH).

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to official state regulations and local regulations.
German Waste Catalogue - Waste code: 80102
Disposal identification: Colours without halogenated solvents. Alcohol-based inks.

**Contaminated packaging**

Clean with ethanol. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1210 |
| **14.2. UN proper shipping name:** | Printing ink |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | I |
| Hazard label: | 3 |
| Classification code: | F1 |
| Special Provisions: | 163 367 |
| Limited quantity: | 500 mL |
| Excepted quantity: | E3 |
| Transport category: | 1 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1210 |
| **14.2. UN proper shipping name:** | Printing ink |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | I |
| Hazard label: | 3 |
| Classification code: | F1 |

| | |
|---|---|
| Special Provisions: | 163 367 |
| Limited quantity: | 500 mL |
| Excepted quantity: | E3 |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1210 |
| **14.2. UN proper shipping name:** | Printing ink |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | I |
| Hazard label: | 3 |
| Special Provisions: | 163, 367 |
| Limited quantity: | 500 mL |
| Excepted quantity: | E3 |
| EmS: | F-E, S-D |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1210 |
| **14.2. UN proper shipping name:** | PRINTING INK |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | I |
| Hazard label: | 3 |
| Special Provisions: | A3 A72 A192 |
| Limited quantity Passenger: | Forbidden |
| Passenger LQ: | Forbidden |
| Excepted quantity: | E3 |
| IATA-packing instructions - Passenger: | 351 |
| IATA-max. quantity - Passenger: | 1 L |
| IATA-packing instructions - Cargo: | 361 |
| IATA-max. quantity - Cargo: | 30 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

No data available.

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**Other applicable information**

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVSE). Possible national deviations in other countries are not considered.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

| | |
|---|---|
| Directive 2010/75/EU on industrial emissions: | 78,7 % (787 g/l) |
| Directive 2004/42/EC on VOC in paints and varnishes: | 78,7 % (787 g/l) |
| Information according to Directive 2012/18/EU (SEVESO III): | E2 Hazardous to the Aquatic Environment |
| Additional information: | P5c |

**National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms**

Flam. Liq: Flammable liquids
Acute Tox: Acute toxicity
Eye Dam: Eye damage
Eye Irrit: Eye irritation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Chronic: Chronic aquatic hazard
EC: European Community
CAS: Chemical Abstracts
TRGS: Technische Regeln für Gefahrstoffe
LD: letal Dose
DIN: Deutsches Institut für Normung
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe
A.W.: Anton Wolfgang
HZVA: Production, Blending, Sale and Application. Abbreviation of the European waste register.
VOC: Volatile Organice Compounds
EN: Europäische Norm
GHS: Globally Harmonized System

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 (CLP)**

| Classification | Classification procedure |
|---|---|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H336 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

**Relevant H and EUH statements (number and full text)**

Highly flammable liquid and vapour.
Flammable liquid and vapour.
Harmful if swallowed.
Causes serious eye damage.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.
The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*