

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Permanent Marker Ink BLACK

Revision date: 31.03.2020

Product code: 100-124-561

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Permanent Marker Ink BLACK

Further trade names

Recipe No.: 20/2399

Included in

- Permanent Marker 150399 / 150499
- Permanent Marker Refill 150599
- Multimark permanent 151399, 152399, 152599

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:	A.W. Faber-Castell Ges.m.b.H	
	Austria	
Street:	Saag 7	
Place:	A-4090 Engelhartszell	
Telephone:	+43 (0)-7717-8053-0	Telefax: +43 (0)-7717-8053-4344
Contact person:	Dr. Gerhard Lugert	
e-mail:	Gerhard.Lugert@faber-castell.de	
Responsible Department:	Faber-Castell AG	
	Nürnberg Str. 2	
	D-90546 Stein	
	Department TEC	
	Dr. Gerhard Lugert, +49 (0) -911-9965 5550, privat: +49 (0)-911-61 64 26	
	Wolfgang Schwarz, +49 (0) -911-9965 5878	

1.4. Emergency telephone number:

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

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Hazard Statements:

Highly flammable liquid and vapour.

2.2. Label elements**Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H225

Highly flammable liquid and vapour.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370+P378	In case of fire: Use Water. Carbon dioxide (CO ₂). Dry chemical. to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to

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

chemical characterization (preparation)

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
64-17-5	ethanol, ethyl alcohol	50 - < 55 %
	200-578-6	
	603-002-00-5	
	01-2119457610-43	
	Flam. Liq. 2; H225	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	15 - < 20 %
	203-539-1	
	603-064-00-3	
	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336	
143-07-7	lauric acid	1 - < 5 %
	205-582-1	
	Eye Irrit. 2; H319	

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

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.

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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

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

Absorb with liquid-binding material (e.g. 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 protective 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.

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

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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.

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/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

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.

Protective and hygiene measures

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.

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: black
Odour: alcoholic

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pH-Value: No data available.

Changes in the physical state

Melting point: <-20 °C

Initial boiling point and boiling range: > 80 °C

Sublimation point: No data available.

Softening point: No data available.

Pour point: No data available.

: No data available.

Flash point: > 21 °C

Sustaining combustion: Sustaining combustion

Flammability

Solid: No data available.

Gas: No data available.

Explosive properties

Vapours may form explosive mixtures with air.

Lower explosion limits: 1,8 vol. %

Upper explosion limits: 15 vol. %

Ignition temperature: 270 °C

Auto-ignition temperature

Solid: No data available.

Gas: No data available.

Decomposition temperature: No data available.

Oxidizing properties

Non-oxidizing.

Vapour pressure: 58 hPa

(at 20 °C)

Vapour pressure: 293 hPa

(at 50 °C)

Density (at 20 °C): 1 g/cm³

Bulk density: No data available.

Water solubility: miscible.

Solubility in other solvents

Miscible with: Ethanol. Water.

Partition coefficient: No data available.

Viscosity / dynamic: 5,1 mPa·s

(at 20 °C)

Viscosity / kinematic: No data available.

Flow time: No data available.

Vapour density: No data available.

Evaporation rate: No data available.

Solvent separation test: No data available.

Solvent content: 71,74 %

9.2. Other information

Solid content: 25,00 %

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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

Alkali metals. Alkaline earth metals. strong oxidizers

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 toxicological effects

Acute toxicity

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

Irritation and corrosivity

Primary irritation:

Irritant effect on the skin: none known

Irritant effect on the eye: Slight irritation possible

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna	IUCLID	
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	

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
64-17-5	ethanol, ethyl alcohol	-0,31
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. 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)

<u>14.1. UN number:</u>	UN 1210
<u>14.2. UN proper shipping name:</u>	Printing ink
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	I
Hazard label:	3
Classification code:	F1
Special Provisions:	163 367
Limited quantity:	500 mL

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Excepted quantity: E3
 Transport category: 1
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN 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: 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: 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: no

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

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

2010/75/EU (VOC): 71,78 % (717,8 g/l)
2004/42/EC (VOC): 71,78 % (717,8 g/l)
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information**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

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)