

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### GRIP Marker Permanent BLACK 13/2399

Print date: 23.10.2015

Product code: 100-008-696

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

##### 1.1. Product identifier

GRIP Marker Permanent BLACK 13/2399

##### **Further trade names**

Recipe No.: 13/2399

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

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

Company name: A.W. Faber-Castell Ges.m.b.H  
Österreich  
Street: Saag 7  
Place: A-4090 Engelhartzell  
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  
Nürnberger Str. 2  
D-90546 Stein  
Abtlg. 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/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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/shower.
P370+P378	In case of fire: Use Water. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

#### 2.3. Other hazards

No data.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Alcohol-based inks with dyestuff and additives.

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
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.

##### 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).

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#### **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.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Water. Carbon dioxide (CO<sub>2</sub>). 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 only 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**

##### **Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

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Recommended storage temperatur: 5 - 35 °C

#### Advice on storage compatibility

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.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	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
		-	-		STEL (15 min)	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

#### Test method

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pH-Value: No data.

#### Changes in the physical state

Melting point: <-20 °C

Initial boiling point and boiling range: 78 °C

Sublimation point: No data.

Softening point: No data.

Pour point: No data.

: No data.

Flash point: 12 °C

Sustaining combustion: Sustaining combustion

#### Flammability

Solid: No data.

Gas: No data.

#### 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.

Gas: No data.

Decomposition temperature: No data.

#### Oxidizing properties

Non-oxidizing.

Vapour pressure: 58 hPa  
(at 20 °C)

Vapour pressure: 293 hPa  
(at 50 °C)

Density (at 20 °C): ca. 1 g/cm<sup>3</sup>

Bulk density: No data.

Water solubility: miscible.

#### Solubility in other solvents

Miscible with: Ethanol. Water.

Partition coefficient: No data.

Viscosity / dynamic:  
(at 20 °C) 5,1 mPa·s

Viscosity / kinematic: No data.

Flow time: No data.

Vapour density: No data.

Evaporation rate: No data.

Solvent separation test: No data.

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.

##### 10.2. Chemical stability

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

##### 10.3. Possibility of hazardous reactions

No data.

##### 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 (CO<sub>2</sub>).

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna	IUCLID
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 mg/l	4600 - 10000	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

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No data.

#### **12.3. Bioaccumulative potential**

No data.

##### **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.

#### **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.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

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)**

<b>14.1. UN number:</b>	UN 1210
<b>14.2. UN proper shipping name:</b>	PRINTING INK flammable
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Special Provisions:	163 640C
Limited quantity:	5 L
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

##### **Other applicable information (land transport)**

E2

#### **Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 1210
<b>14.2. UN proper shipping name:</b>	PRINTING INK flammable
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Special Provisions:	163 640C

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Limited quantity: 5 L

**Other applicable information (inland waterways transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1210  
**14.2. UN proper shipping name:** PRINTING INK flammable  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3  
Special Provisions: 163  
Limited quantity: 5 L  
EmS: F-E, S-D

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)**

**14.1. UN number:** UN 1210  
**14.2. UN proper shipping name:** PRINTING INK flammable  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3  
Special Provisions: A3 A72  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E2

Passenger-LQ: Y341

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No data.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No data.

**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**

2010/75/EU (VOC): 71,78 % (717,8 g/l)  
2004/42/EC (VOC): 71,78 % (717,8 g/l)

**National regulatory information**

Water contaminating class (D): 2 - water contaminating



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#### **15.2. Chemical safety assessment**

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

#### **SECTION 16: Other information**

##### **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 present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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