

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
*\*see section 16 for colour names*

Data Sheet No: DS504  
 Issue Date: 24<sup>th</sup> September 2018

Version No: 001  
 Page 1

## 1.0 – Identification of the substance/mixture and of the company/undertaking

### 1.1 – Product Identification

Trade name: Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks  
 Substance name: n/a  
 Index No: n/a  
 CAS-No: n/a  
 EC-No: n/a

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

Use of the substance/mixture: Preparation for use in writing instruments  
 Recommended restrictions on use: No information available

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

Company: Multichem Limited, Tyne Mills Industrial Estate, Hexham, Northumberland NE46 1XL UK  
 Telephone: +44 1434 606 085  
 Fax: +44 1434 601 804  
 e-mail: [mail@multichem.net](mailto:mail@multichem.net)

### 1.4 – Emergency telephone number

**+44 7887 612 787**

## 2.0 - Hazards Identification

### 2.1 – Classification of the substance or mixture

Regulation (EC) No. 1272/2008			
Hazard class	Hazard category	Target organs	Hazard statements
Flammable liquids	2	n/a	H225
Serious eye damage/eye irritation	2	eyes	H319
STOT-SE	3	CNS	H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

### 2.2 – Label Elements

Labelling according to Regulation (EC) No. 1272/2008  
 Hazard Symbols:



Signal word:

**DANGER**

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
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Data Sheet No: DS504

Version No: 001

 Issue Date: 24<sup>th</sup> September 2018

Page 2

Hazard statements:	H225 Highly flammable liquid and vapour H319 Causes serious eye irritation H336 May cause drowsiness or dizziness
Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 Keep container tightly closed P240 Ground/bond container and receiving equipment P243 Take precautionary measures against static discharge P280 Wear protective gloves/protective clothing/eye protection P305/P351/P338 IF IN EYES: rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing P337/P313 If eye irritation persists: get medical advice/attention P403/P235 Store in a well-ventilated place. Keep cool.

### 2.3 – Other hazards

No other information available.

## 3.0 - Composition / information on ingredients

### 3.1 – Substances

Chemical nature: mixture

Chemical name	REACH Reg. No.	CAS No.	EC No.	Amount (%)
1-Methoxy-2-propanol	01-2119457435-35	107-98-2	203-539-1	<75%
Propan-2-ol	01-2119457558-25	67-63-0	200-661-7	<20%
2-amino-2-methylpropanol	01-2119475788-16-xxxx	124-68-5	204-709-8	<1%

Chemical name	Classification according to Regulation (EC) No. 1272/2008
1-Methoxy-2-propanol	H226 (3), H336 (3)
Propan-2-ol	H225 (2), H319 (2), H336 (3)
2-amino-2-methylpropanol	H315 (2), H319 (2), H412 (3)

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4.0 - Description of first aid measures

### 4.1 – Description of first aid measures

General advice:	Take off all contaminated clothing immediately
In case of inhalation:	Remove to fresh air. If symptoms persist, seek medical advice. If unconscious place in recovery position
In case of skin contact:	Wash off with plenty of water. If skin irritation persists, seek medical advice
In case of eye contact:	Rinse thoroughly with plenty of water, also under the eyelids. Consult an eye specialist immediately

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

No information available

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
**\*see section 16 for colour names**

Data Sheet No: DS504  
Issue Date: 24<sup>th</sup> September 2018

Version No: 001  
Page 3

#### 4.3 - Indication of immediate medical attention and special treatment needed

Treat symptomatically. No further information available

## 5.0 – Firefighting measures

### 5.1 – Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide  
Unsuitable extinguishing media: High volume water jet

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

Specific hazards during fire-fighting: Highly flammable. Vapours may form explosive mixtures with air. In case of fire hazardous decomposition products may be produced, such as carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

### 5.3 - Advice for firefighter

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)  
Further information: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise – with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains

## 6.0 – Accidental release measures

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

Personal precautions: Use personal protective equipment. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours.

### 6.2 – Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration

### 6.3 – Methods and materials for containment and cleaning up

Procedure: Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13)  
Further information: Treat recovered material as described in Section 13

### 6.4 – Reference to other sections

For personal protection see Section 8

## 7.0 – Handling and storage

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**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
**\*see section 16 for colour names**

Data Sheet No: DS504

Version No: 001

Issue Date: 24<sup>th</sup> September 2018

Page 4

### 7.1 – Precautions for safe handling

Advice on safe handling:	Keep container tightly closed. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the working day. Take off all contaminated clothing immediately. Avoid contact with skin and eyes. Do not breathe vapours of spray mist

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

Requirements for storage areas and containers:	Keep in an area equipped with solvent resistant flooring. Store in original container
Advice on protection against fire and explosion:	Combustible liquid. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Vapours may form explosive mixtures in air. Use only in an area containing explosion proof equipment
Further information on storage conditions:	Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Keep away from direct sunlight
Advice on common storage:	Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs

### 7.3 – Specific end uses

Specific uses(s): No information available

## 8.0 – Exposure controls/personal protection

### 8.1 – Control parameters

#### 1-methoxy-2-propanol (CAS No. 107-98-2)

Regulatory basis:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list:	EH40 WEL
Value type:	Time Weighted Average (TWA)
Value:	100 ppm
Value :	375 mg/m <sup>3</sup>
Regulatory basis:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list:	EH40 WEL
Value type:	Short Term Exposure Limit (STEL)
Value:	150 ppm
Value :	560 mg/m <sup>3</sup>
Regulatory basis:	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU
Value type:	Short Term Exposure Limit (STEL)
Value:	150 ppm
Value :	568 mg/m <sup>3</sup>

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
*\*see section 16 for colour names*

Data Sheet No: DS504

Version No: 001

 Issue Date: 24<sup>th</sup> September 2018

Page 5

Regulatory basis:	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU
Value type:	Short Term Exposure Limit (TWA)
Value:	100 ppm
Value :	375 mg/m <sup>3</sup>
Regulatory basis:	ELV (IE)
Regulatory list:	Indicative OELV
Value type:	Short Term Exposure Limit (STEL)
Value:	150 ppm
Value :	568 mg/m <sup>3</sup>
Regulatory basis:	ELV (IE)
Regulatory list:	Indicative OELV
Value type:	Time Weighted Average (TWA)
Value:	100 ppm
Value :	375 mg/m <sup>3</sup>

**Propan-2-ol (CAS No. 67-63-0)**

Regulatory basis:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list:	EH40 WEL
Value type:	Time Weighted Average (TWA)
Value:	400 ppm
Value :	999 mg/m <sup>3</sup>
Regulatory basis:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list:	EH40 WEL
Value type:	Short Term Exposure Limit (STEL)
Value:	500 ppm
Value :	1250 mg/m <sup>3</sup>

**8.2 – Exposure controls**

Engineering measures:	Refer to protective measures listed in Sections 7 and 8
Respiratory protection :	Required, if exposure limit is exceeded (e.g. OEL). Respirator with a gas filter. Recommended filter type: AX
Hand protection:	Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear Butyl rubber, 0.5mm, Fluorocarbon rubber, 0.4mm
Eye protection:	Tight fitting safety goggles
Skin and body protection:	Wear suitable protective clothing
Environmental protection:	Do not let product enter drains. If the product contaminates rivers and lakes or drains inform respective authorities

**9.0 – Physical and chemical properties**

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)*****Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks******\*see section 16 for colour names***

Data Sheet No: DS504

Version No: 001

Issue Date: 24<sup>th</sup> September 2018

Page 6

**9.1 – Information on basic physical and chemical properties**

Appearance:	Various colours, liquid
Odour:	Alcohol-like
Odour threshold:	No data available
pH:	No data available
Melting point / freezing point:	-89.5°C
Initial boiling point/boiling range:	82°C
Flash point:	12°C
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	12% (V), 2% (V)
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	Miscible in water, readily miscible with solvents
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	425°C
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

**9.2 – Other information**

No further information available

**10.0 – Stability and reactivity****10.1 – Reactivity**

Advice: Stable under recommended storage conditions

**10.2 – Chemical Stability**

Advice: Stable under normal conditions

**10.3 – Possibility of hazardous reactions**

Hazardous reactions: No information available

**10.4 – Conditions to avoid**

Conditions to avoid: Heat, flames and sparks

**10.5 – Incompatible materials**

Materials to avoid: Alkali metals, alkaline earth metals, strong oxidizing agents, nitric acid, sulphuric acid, peroxides (e.g. hydrogen peroxide)

**10.6 – Hazardous decomposition products**Hazardous decomposition: Under fire conditions: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)**11.0 – Toxicological information**

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
**\*see section 16 for colour names**

Data Sheet No: DS504

Version No: 001

Issue Date: 24<sup>th</sup> September 2018

Page 7

### 11.1 – Information on toxicological effects

#### 1-methoxy-2-propanol (CAS No. 107-98-2)

Oral

Value type: LD50  
Value: 4016 mg/Kg  
Species: rat

Inhalation

Value type: LC50  
Value: >25.8 mg/L  
Exposure time: 6 h  
Species: rat

Dermal

Value type: LD50  
Value: >2000 mg/Kg  
Species: rabbit

#### Propan-2-ol (CAS No. 67-63-0)

Oral

Value type: LD50  
Value: 5840 mg/Kg  
Species: rat

Inhalation

Value type: LC50  
Value: >25 mg/L  
Exposure time: 6 h  
Species: rat

Dermal

Value type: LD50  
Value: >13900 mg/Kg  
Species: rabbit

## 12.0 – Ecological information

### 12.1 – Toxicity

#### 1-methoxy-2-propanol (CAS No. 107-98-2)

Fish

Species: Pimephales promelas (fathead minnow)  
Value type: LC50  
Value: 20800 mg/L  
Exposure time: 96 h

Daphnia and other aquatic invertebrates

Species: daphnia magna  
Value type: LC50  
Value: 21100 - 25900 mg/L  
Exposure time: 48 h

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
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Data Sheet No: DS504  
Issue Date: 24<sup>th</sup> September 2018

Version No: 001  
Page 8

**Algae**

Species: Chlorella vulgaris (Fresh water algae)  
Value type: EC50  
Value: >1000 mg/L  
Exposure time: 7 d

**Bacteria**

Species: activated sludge  
Value type: IC50  
Value: 1000 mg/L  
Exposure time: 3 h

**Propan-2-ol (CAS No 67-63-0)****Fish**

Species: Pimephales promelas (fathead minnow)  
Value type: LC50  
Value: 9640 mg/L  
Exposure time: 96 h

**Daphnia and other aquatic invertebrates**

Species: daphnia magna  
Value type: EC50  
Value: 9714 mg/L  
Exposure time: 24 h

**Algae**

Species: Scenedesmus subspicatus  
Value type: EC50  
Value: >100 mg/L  
Exposure time: 72 h

**Bacteria**

Value type: EC50  
Value: >100 mg/L, no harming action

**12.2 – Persistence and biodegradability**

No data available

**12.3 – Bioaccumulative potential**

No data available

**12.4 – Mobility in soil**

Mobile in water environment

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

No data available

**12.6 – Other adverse effects**

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.



**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)****Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks****\*see section 16 for colour names**

Data Sheet No: DS504

Version No: 001

Issue Date: 24<sup>th</sup> September 2018

Page 9

**13.0 – Disposal considerations****13.1 – Waste treatment methods**

Product:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not empty into drains. Contact waste disposal services
Contaminated packaging:	Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product. Do not burn, or use a cutting torch on the empty drum. Risk of explosion

**14.0 – Transport Information****14.1 – UN Number**

1993

**14.2 – UN proper shipping name**

ADR:	Flammable Liquid n.o.s (contains iso-propanol)
RID:	Flammable Liquid n.o.s (contains iso-propanol)
IMDG:	Flammable Liquid n.o.s (contains iso-propanol)

**14.3 – Transport hazardous class(es)**

Labels/classification code/ hazard identification number /tunnel restriction code

ADR:	3 ; F1 ; 33 : (D/E)
RID:	3 ; F1 ; 33
IMDG :	3; (F-E, S-E)

**14.4 – Packing group**

ADR:	II
RID:	II
IMDG:	II

**14.5 – Environmental hazards**

Labelling according to 5.2.1.8 ADR:	No
Labelling according to 5.2.1.8 RID:	No
Labelling according to 5.2.1.6.3 IMDG:	No
Classification as environmentally hazardous according to 2.9.3 IMDG:	No
Classified as 'P' according to 2.10 IMDG:	No

**14.6 – Special precautions for user**

Not applicable

**14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IMDG:	Not applicable
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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)**  
**Permanent ink PP170\*, SP117\*, PCM Bases\*, Wood shade inks**  
**\*see section 16 for colour names**

Data Sheet No: DS504

Version No: 001

Issue Date: 24<sup>th</sup> September 2018

Page 10

**15.0 – Regulatory Information****15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture**

All components are REACH registered or are exempt from REACH registration

Our inks do not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57)

All components are listed on TSCA list of active substances

**15.2 – Chemical safety assessment**

No information available

**16.0 – Other Information****16.1 – Full text of H-Statements referred to under Sections 2 and 3**

H225:	Highly flammable liquid and vapour
H226:	Flammable liquid and vapour
H315:	Causes skin irritation
H319:	Causes serious eye irritation
H336:	May cause drowsiness or dizziness
H412:	Harmful to aquatic life with long lasting effects

**16.2 – Further information**

Colour names:	Black, Black 143A, Yellow, Yellow 48, Brown, Light Brown, Brown 35, Golden Orange, Golden Orange 33, Aqua, Green 64A, Turquoise 58H, Red 10-42A, Red, Red 143C, Bright Red, Dark Red, Scarlet, Orange, Orange 58K, Pink, Pink 34, Lavender, Violet, Purple 58J, Sky Blue, Cherry Red, Clear Base, Black Base, Orange Base, Yellow Base, Aqua Base, Red, Base, Pink Base
Other:	The information provided in this safety data sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this safety data sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text
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