

# See page 5 for product details

Multichem Ltd

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)

PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 1 of 10

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

#### 1.1 - Product identification

Trade name : Multichem PM5 Paint Marker Ink (Pigmented) (see section 16)

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 : Preparation for use in writing instruments.

substance/mixture

Recommended : At this time we do not yet have information on use restrictions. They will be included in this safety data sheet when available.

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

Company : Multichem Ltd

Tyne Mills Industrial Estate

Hexham

NE46 1XL United Kingdom +44 1434 606 085

Northumberland

Telephone : +44 1434 606 085 Fax : +44 1434 601 804 e-mail address : mail@multichem.net

#### 1.4 - Emergency telephone number

Emergency telephone : +44 7887 612787

# 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		H225

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

### Most important adverse effects

Human health : See Section 11 for toxicological information.

No further information available.

Physical and chemical : See Section 9 for physiochemical information. hazards No further information available.

Potential environmental : See Section 12 for environmental information.

. Occident crivilorimental . Occident information available

effects No further information available.



PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 2 of 10

#### 2.2 - Label elements

#### Labelling according to Regulation (EC) No. 1272/2008

Hazard symbols: :

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

Precautionary : P210 Keep away from heat/sparks/open flames/hot surfaces. No

statements smoking.

Prevention P233 Keep container tightly closed.

P240+P243 Ground/bond container and receiving equipment. Take

precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

Storage : P403+P235 Store in a well-ventilated place. Keep cool.

#### 2.3 - Other hazards

No other information is available.

#### 3.0 - Composition/information on ingredients

#### 3.1 - Substances

Chemical nature : mixture

Chemical name	Index No.	REACH Reg. No.	CAS No.	EC No.	Amount (%)
Ethanol	603-002-00-5	01-2119457610-43	64-17-5	200-578-6	<70%

Chemical name	Classification according to Regulation (EC) No. 1272/2008	
Ethanol	H225 (2)	

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

### 4.0 - 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.

In case of ingestion : Clean mouth with water and drink afterwards plenty of water. Never

give anything by mouth to an unconscious person. If swallowed, do not

induce vomiting – seek medical advice.





PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 3 of 10

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

Symptoms : No further information available. Effects : No further information available.

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

Treatment : Treat symptomatically.

No further information available.

#### 5.0 - Fire-fighting 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 fire-fighters

Special protective equipment for fire-fighters

Further information

In the event of fire, wear self-contained breathing apparatus. Wear

appropriate body protection (full protective suit).

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. For personal protection see Section 8.

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

Methods and materials for containment and cleaning

up

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.



PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 4 of 10

#### 6.4 - Reference to other sections

For personal protection see Section 8.

# 7.0 - Handling and storage

#### 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

Advice on protection against fire and explosion

against fire and explosio

Further information on storage conditions

Advice on common

storage

Keep in an area equipped with solvent resistant flooring. Store in

original container.

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.

Keep tightly closed in a dry and cool place. Keep in a well-ventilated

place. Keep away from heat. Keep away from direct sunlight.

Incompatible with oxidizing agents. Keep away from food, drink and

animal feeding stuffs.

# 7.3 - Specific end uses

Specific use(s) : No information available.

## 8.0 - Exposure controls/personal protection

#### 8.1 - Control parameters

Component: ethanor; ethyr alcohor			CAS NO. 64-17-5	
Other OELs				
Regulatory basis	:	UK. EH40 Workplad	ce Exposure Limits (WELs)	
Regulatory list	:	EH40 WEL		
Value type	•	Time Weighted Ave	rage (TWA):	

Value type : Time Weighted Average (TWA):

 Value
 : 1000 ppm

 Value
 : 1920 mg/m³

#### 8.2 - Exposure controls

# **Engineering measures**

Refer to protective measures listed in Sections 7 and 8.





PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 5 of 10

### Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL). Respirator with a

gas filter. Recommended filter type: A.

Hand protection

Advice : 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.

Material : Butyl-rubber Gloves : >= 8 h Glove thickness : 0.5 mm

Material : Fluorocarbon rubber

Gloves : >= 8 hGlove thickness : 0.4 mm

Material : Polychloroprene

Gloves : >= 2 hGlove thickness : 0.5 mm

Eye protection

Advice : Safety glasses.

Skin and body protection

General advice : Wear suitable protective clothing.

**Environmental exposure controls** 

General advice : Do not let product enter drains. If the product contaminates rivers and

lakes or drains inform respective authorities.

FAIPMYEL/RED PAINT MARKER PEN YELLOW & RED (2) FAIPMBLK/WHI PAINT MARKER PEN BLACK & WHITE (2)





PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 6 of 10

## 9.0 - Physical and chemical properties

#### 9.1 - Information on basic physical and chemical properties

Appearance : Various colours, liquid

Odour : Alcohol-like
Odour threshold : Not determined

pH : 6 to 8

Melting point / freezing point : -114.5°C

Initial boiling point and boiling range : 78.3°C

Flash point : 12°C

Evaporation rate : Not determined
Flammability : Not determined
Upper/lower flammability or explosive limits : 15% (V), 3.5% (V)
Vapour pressure : 59 hPa 20°C
Vapour density : Not determined
Relative density : Not determined

Solubility : Miscible in water, readily miscible with solvents

Partition coefficient: n-octanol/water : Not determined

Auto-ignition temperature : 425°C

Decomposition temperature : Not determined Viscosity : 10 to 40cP (20°C) Explosive properties : Not determined Oxidising properties : Not determined

#### 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>).

products



PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18th January 2017 Page 7 of 10

### 11.0 - Toxicological information

#### 11.1 - Information on toxicological effects

Component: ethanol; ethyl alcohol CAS No. 64-17-5 Acute toxicity

Oral

Value type LD50 Value 6200 mg/kg

Species rat

Inhalation

Value type LC50

Value 124.7 mg/kg

Exposure time 4 h **Species** rat

Irritation

Skin

Remarks Degreases the skin, which may cause dryness. Prolonged or repeated

skin contact may result in dermatitis.

Eves

Splashes in eyes may cause strong pain. Vapour can cause irritation. Remarks

Sensitisation

Did not cause sensitisation on laboratory animals. Remarks

**Further information** 

Other relevant toxicity All numerical values for acute toxicity are calculated on the pure

information substances.

Experiences with human Repeated and prolonged exposure to solvents may cause brain and

nervous system damage. exposure

# 12.0 - Ecological information

# 12.1 - Toxicity

Component: ethanol; ethyl alcohol	CAS No. 64-17-5
A4 - 41 - 14	

**Acute toxicity** 

**Fish** 

**Species** Leuciscus idus (Golden orfe)

LC50 Value type 8150 mg/l Value

Toxicity to daphnia and other aquatic invertebrates

: Daphnia magna Species

Exposure time 48 h Value type EC50

Value 9268 - 14221 mg/l

Algae

Species Scenedesmus quadricauda

Exposure time 168 h Value type EC0 Value 5000 mg/l





PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18th January 2017 Page 8 of 10

**Bacteria** 

Pseudomonas putide Species

Value type EC0 Value 6500 mg/l

Cell-proliferation inhibition test Remarks

#### 12.2 - Persistence and degradability

Component: ethanol; ethyl alcohol CAS No. 64-17-5 Persistence and biodegradability

Biodegradability

Remarks : Readily biodegradable

#### 12.3 - Bioaccumulative potential

No information available.

### 12.4 - Mobility in soil

Mobile in water environment.

#### 12.5 - Results of PBT and vPvB assessment

No information available.

## 12.6 - Other adverse effects

All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

#### 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.

Empty contaminated packaging thoroughly. They can be recycled after Contaminated packaging

> 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.

European Waste

Catalogue Number

080312 – waste ink containing dangerous substances



PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 9 of 10

# 14.0 - Transport information

#### 14.1 - UN number

1993

### 14.2 - UN proper shipping name

ADR : Flammable Liquid n.o.s (contains ethanol)
RID : Flammable Liquid n.o.s (contains ethanol)
IMDG : Flammable Liquid n.o.s (contains ethanol)

# 14.3 - Transport hazard class(es)

ADR-Class : 3

(Labels; classification : 3; F1; 33: (D/E)

code; hazard

identification number; tunnel restriction code)

RID-Class : 3

(Labels ; classification 3: F1; 33

code; hazard

identification number)

IMDG-Class : 3

(Labels ; EmS) : 3 ; (F-E, <u>S-E)</u>

#### 14.4 - Packaging group

ADR : II
RID : II
IMDG : II

# 14.5 - Environmental hazards

Labelling according to : No

5.2.1.8 ADR

Labelling according to : No

5.2.1.8 RID

Labelling according to : No 5.2.1.6.3 IMDG : No Classification as : No

on incommentally

environmentally

hazardous according to

2.9.3 IMDG

Classified as 'P' according : No

to 2.10 IMDG

#### 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.





PM5 Paint Marker Ink (Pigmented) (colours listed in Section 16\*)

Data Sheet No: DS352 Version 6.0 Issue Date: 18<sup>th</sup> January 2017 Page 10 of 10

#### 15.0 - Regulatory information

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

No information available.

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.

16.2 - Further information

\*Ink colour shades : White 1-36, White 57A, Black, Blue 160B, Blue 166I, Blue 9-157B,

Royal Blue 131A, Red 166H, Red 9-120, Orange 27D, Orange 88A, Yellow 51C, Yellow 2, Pink 10-050A, Green 10-050B, Green 87A, Green 131C, Lime Green 141A, Emerald 166D, Purple 160A, Brown 92A, Brown 10-65D Turquoise 10-068A, Green 10-068A, Orange 4241

Other information : 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.

HS Tariff Code : 32159070