

Trade name	METO WATER BASED INK, (BLACK, BLUE, GREEN, RED, YELLOW)	Date	30.01.95
Product no.	8308050, 8308052, 8308054, 8308051, 8308053	Revised on	01.02.2016
Manufacturer/supplier:	METO International GmbH		

1 Substance / preparation and company name

1.1 Trade name

METO WATER BASED INK, (BLACK, BLUE, GREEN, RED, YELLOW)

1.2 Details of manufacturer/supplier



METO International GmbH
Ersheimer Str. 69
D-69434 Hirschhorn
Telefon: +49 (0)6272 928 -0
Fax: +49 (0)6272 928 -127

2 Composition / components

Chemical characterisation:

☐

substance

☐

preparation

Aqueous pigment dispersion (pigment blue 15:3) in diol with polyglycol ether and dispersing agent

2.1 The product contains the following relevant components:

2.1.1 N - methyl - 2 - pyrrolidone (0,65 %)

2.1.2

2.1.3

2.1.4

2.2 Characterisation of relevant ingredients according to 2.1 :

	CAS-No.	EC-No.	Symbol	R-rate
2.2.1	872-50-4	606-021-00-7	Xi	36/38
2.2.2				
2.2.2				
2.2.3				
2.2.4				

3 Possible hazards

There are no hazards or risks worth mentioning in handling the preparation as long as the industrial hygiene regulations are followed:

Hazard code : none

Hazard symbol : none

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4 First aid action

- 4.1 In general** : Remove soiled clothing
- 4.2 On inhalation** : Remove soiled clothing, Wash skin area thoroughly with soap and water
- 4.3 On skin contact** : Remove soiled clothing
Wash skin area thoroughly with soap and water
- 4.4 On eye contact** : Rinse eyes thoroughly with water and if necessary consult a doctor
- 4.5 On swallowing** : Rinse mouth immediately and drink lots of water
- 4.6 Doctor's information:** On swallowing if necessary the patient should be forced to vomit

5 Fire-fighting measures

- 5.1 Suitable extinguishing agent :**
Water jet spray
- 5.2 Unsuitable extinguishing agent due to hazards :**
no known agents
- 5.3 Particular product hazard as a result of the burning product :**
The product poses no hazard.
- 5.4 Particular protective equipment or fire-fighting action :**
Not necessary..

6 Action on unintentional release

- 6.1 Safety measure for the individual :**
Keep away from eyes.
Do not drink or swallow.
- 6.2 Spillage / leakage / Gas leak :**
Prevent it reaching the sewerage system
- 6.3 Cleaning procedure :**
Soak up product with suitable adsorbent (sawdust).
Waste and residue to be taken to the local collection point for harmful substances.

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7 Handling and storage

7.1 Handling

- 7.1.1 Keep away from eyes, do not drink or swallow.
- 7.1.2 The general rules for industrial hygiene are to be observed.

7.2 Storage

- 7.2.1 Suitable container substances: polyethylene, polypropylene
- 7.2.2 Dry, preferably at room temperature
- 7.2.3 Protect from frost
- 7.2.4 Containers should be kept sealed
- 7.2.5 No hazardous decomposition products if handling and storage is carried out according to regulations

8 Exposure limits and personal protective equipment

8.1 Additional information on the lay-out of the technical plant

no actions required

8.2 Components with work-station-related border line values to be monitored

- 8.2.1 N - METHYL - 2 - PYRROLIDONE (0,65 %)
CAS no. 872 - 50 - 4

8.3 Personal protective equipment

- 8.3.1 No personal protective equipment required..
- 8.3.2 Wash hands before breaks and at the end of work.
Keep away from eyes and avoid prolonged skin contact.

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9 Physical and chemical properties

- 9.1 Manifestation** at 23° C
- | | | | |
|--------|---|-----------------------------------|--|
| Form | : | liquid | |
| Colour | : | (BLACK, BLUE, GREEN, RED, YELLOW) | |
| Odeur | : | slightly like ether | |
- 9.2 Safety data**
- pH :
- Changes of state :
boiling range 110 - 110° C at 1013 hPa (mbar)
- Flash point : > 200° C DIN ISO 2592: 1980
- Inflammability : n.a. VbF
- Ignition temperature :
- Spontaneous inflammability: none
- Explosivity limits upper :
lower :
- Steam pressure : (23° C) 23,6 hPa (mbar)
- Density : (23° C) 1,041 g / cm³ DIN 51757
11,32 % solid
- 9.3 Other details**
- Water solubility (23° C) : Dye omitted (insoluble).
Solvent mixture can be mixed with water in any ratio.
- Viscosity (23° C) : 11 sec Fordbecher 4mm nozzle

10 Stability and reactivity

- 10.1 Thermal decomposition** : under normal pressure can be distilled without being decomposed
- 10.2 Hazardous decomposition products** : None if handling and storage are according to regulations
- 10.3 Hazardous reactions** : No known reactions

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Manufacturer/supplier	Checkpoint Systems GmbH		

11 Toxicology

- 11.1 Grading related LD / LC 50 - values :** none
- 11.2 Components :**
- 11.2.1** N - METHYL - 2 - PYRROLIDONE (0,65 %)
No details in chemical law and Directive on Hazardous Substances.
- 11.2.2**
- 11.2.3**
- 11.3** The preparation shows no hazards on account of the calculation procedure of general EC rating guidelines for preparations in the latest edition.
- 11.4** The preparation is not a hazardous substance in terms of the latest edition of Directive on Hazardous Substances from 1986.

12 Ecology

- 12.1** Elimination (persistence and decomposition)
- 12.1.1** The dye sedimentated on suspended particles and can be removed mechanically.
- 12.1.2** Other components are bio-degradable.
- 12.1.3**
- 12.2** No indication of bio-accumulation potential
- 12.3** No indication of AOX values
- 12.4** Contains no heavy metals or binders in accordance with the recipe EC Guideline no. 76 / 464 ECL

13 Disposal

- Waste key:** **EWC-Code:** **OECD-Code:**
- 13.1 Product:** **EWC-Descr.: Colours, Printcolours, Adhesives and Resins**
- 13.1.1** Waste and residue of the preparation should be taken to the collection point for harmful substances in compliance with the authorities regulations.
- 13.1.2** Sedimentated particles from 12.1.3 can be treated as 13.1.1.
- 13.2 Soiled packaging :**
- 13.2.1** Soiled packaging is easy to empty.
- 13.2.2** They can be re-used as product-specific re-usable packaging.
- 13.2.3** Damaged packaging can be recycled after rinsing with water.

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15.2 National regulations**15.2.1 Employment restrictions**

According to Section 15 Directive on Hazardous Substances, 10/94, there are no employment restrictions.

15.2.2 Seveso directive**15.2.3 Directive on inflammable liquids VbF**

Hazard class according to VbF : n.a.

15.2.4 TA air**15.2.5 Water hazard class**

Water hazard class 1 (self-classification)

15.2.6 Other regulations, restrictions and prohibition directive

15.2.6.1 Appropriate trade association and industrial medicine regulations of the appropriate professional association are to be observed.

15.2.6.2 This preparation is not a hazardous substance in terms of the latest edition of the Directive on Hazardous Substances (10/94) at the time of compiling the data sheets.

16 Other details**16.1 Sources of literature sought :**

16.1.1 EC safety data sheets of raw material suppliers

16.1.2 Latest editions of the chemicals act

16.1.3 Data sheets of hazardous working substances according to the latest edition of Directive on Hazardous Substances

16.1.4 Latest edition of the Directive on Hazardous Substances

16.2 The above details are based on current knowledge and present no assurance of properties. Existing laws and regulations are to be observed by the receiver of our products on his/her own responsibility.

n.a. = not applicable