



# SAFETY DATA SHEET

<b>Product Name:</b>	<b>FLUSHING SOLUTION</b>	<b>SDS Reference</b>	RPG129
<b>Version No.</b> 2	<b>Initial issue date</b> May 1 <sup>st</sup> , 2014	<b>Revision date</b>	01-06-2015

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

<b>1.1 Product identifier</b>	FLUSHING SOLUTION	
<b>1.2 Use (s)</b>	Flushing solution for printing ink	
<b>1.3 SDS Supplier</b>	Colormagic Ltd Unit 2, Banters Lane Business Park, Main Road, Great Leighs, Essex, CM3 1QX	<b>Telephone</b> +44 (0) 1245 360140 <b>Fax No:</b> +44 (0) 1245 362586
<b>1.4 Emergency Telephone</b>	01245 360140 (Office hrs)	<b>SDS Competent Person e-mail:</b> simon@colormagicink.com

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute Tox. 4 H312  
Acute Tox. 4 H332

#### 2.1.2 Additional information

The text of Hazard Statements are given in section 16

### 2.2 LABELLING ELEMENTS

#### 2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

**Pictogram(s):**



**Signal word**

WARNING

**Hazard statement(s)**

H312 HARMFUL IN CONTACT WITH SKIN  
H332 HARMFUL IF INHALED

**Precautionary statement(s)**

P261 AVOID BREATHING FUME, MIST, VAPOURS, SPRAY  
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.  
P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.  
P304+340 IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.  
P314 GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL. .

**2.3 Other hazards** The product has a workplace exposure limit.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** 2-BUTOXYETHYL ACETATE

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
2-BUTOXYETHYL ACETATE	112-07-2	203-933-3	CLP: Acute Tox. 4, H312 Acute Tox. 4, H332	> 70%
REACH Ref No.	01-2119475112-47			

### 4. FIRST AID MEASURES

#### 4.1 Description of measures

<b>Inhalation</b>	Remove casualty to fresh air. If necessary, seek medical advice.
<b>Skin contact</b>	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice.
<b>Eye contact</b>	Wash out eye thoroughly with plenty of water until irritation subsides; If necessary, consult a specialist/ophthalmologist.
<b>Ingestion</b>	If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice.
<b>4.2 Most important effects/symptoms</b>	None known.
<b>4.3 Immediate/special treatment</b>	Treatment as described above. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>5.1 Extinguishing media</b>	To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder). Do not use water jet.
<b>5.2 Special hazards</b>	Decomposition products released in a fire (e.g. oxides of carbon) should be considered as probably harmful if inhaled.
<b>5.3 Advice for fire fighters</b>	Wear self-contained breathing apparatus. Cool closed containers exposed to fire with water.

### 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions</b>	Adhere to personal protective measures (see sections 7 and 8).
<b>6.2 Environmental precautions</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>6.3 Methods and materials for cleaning up</b>	Take up with absorbent material, e.g. sand, sawdust into tightly closable containers. Label container and dispose of as prescribed.
<b>6.4 Reference to other sections</b>	See section 8 for personal protective equipment.

### 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Handle in accordance with good hygiene and safety practice. Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Prevent the creation of flammable or explosive concentrations of vapours in air. Keep away from incompatible substances.
<b>7.2 Conditions for safe storage</b>	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry. Store in original container. Avoid direct sunlight and store at 5-35°C
<b>7.3. Specific end use(s)</b>	Flushing solution for printing ink

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Controls parameters

<b>Engineering controls</b>	Provide adequate ventilation (e.g. local exhaust ventilation).
<b>Personal protection</b>	Observe normal standards for handling chemicals. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles (EN 166 or 169) if risk of eye contamination.
<b>Skin protection</b>	Chemical-resistant gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	Not normally required.
<b>Other protection</b>	Protective overalls
<b>8.2 Exposure controls</b>	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)

LTEL (8 hour TWA): 20 ppm 133 mg/m<sup>3</sup> Data for 2-butoxyethyl acetate\*  
 STEL (15 min): 50 ppm 332 mg/m<sup>3</sup> Data for 2-butoxyethyl acetate\*

\* Can be absorbed through the skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Basic physical and chemical properties

<b>Physical form</b>	Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Weak, fruity
<b>Odour Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Boiling pt / range</b>	Lowest known value: 192°C
<b>Melting pt / range</b>	< -70 °C
<b>Flash point</b>	82 °C
<b>Flammability</b>	Not applicable
<b>Evaporation rate</b>	0.03 compared with butyl acetate
<b>Explosion limits</b>	Lower: 1.7% Upper: 8.4%
<b>Auto-ignition temperature</b>	280 °C
<b>Decomposition temp.</b>	Not applicable
<b>Relative density</b>	0.94
<b>Viscosity</b>	Kinematic (40°C): 0.01303 cm <sup>2</sup> /s (1.303 cSt)
<b>Vapour pressure</b>	0.031 kPa (0.23 mm Hg)
<b>Vapour density</b>	5.5 [Air = 1]
<b>Water solubility</b>	Poorly soluble
<b>Explosive properties</b>	Not determined
<b>Oxidising properties</b>	Not determined
<b>Partition coeff. Log<sub>Oct/water</sub></b>	1.51
<b>9.2 Other information</b>	VOC:100%; heat of combustion: -32.56 kJ/g

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## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	Stable under normal conditions of handling.
<b>10.3 Hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	When exposed to high temperatures may produce hazardous decomposition products
<b>10.5 Incompatible material</b>	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 information on toxicological effects

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	2400	mg/kg
	LD <sub>50</sub> rabbit (derm)	1500	mg/kg
<b>Dermal compatibility</b>	No data available. May cause irritation.		
<b>Mucous membrane compatibility</b>	No data available.		
<b>Further information</b>	No data available		

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	LC <sub>50</sub>	Aquatic organisms	mg/l	No data available
<b>12.2 Degradability</b>	Not determined			
<b>12.3 Bioaccumulative potential</b>	Low, LogP <sub>ow</sub> :	1.51		
<b>12.4 Mobility in soil</b>	Not determined			
<b>12.5 PBT/vPvB assessment</b>	Not applicable			
<b>12.6 Other adverse effects</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.			

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment measures

<b>Advice on disposal</b>	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product: if possible wash out thoroughly and recycle.

## 14. TRANSPORT INFORMATION

<b>14.1 United Nations number (ADR, IMDG, IATA)</b>	Not classified for transport
<b>14.2 Proper shipping name (ADR, IMDG, IATA)</b>	Not applicable
<b>14.3 Transport class(s) (ADR, IMDG, IATA)</b>	Not applicable

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<b>14. TRANSPORT INFORMATION</b>
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<b>14.4 Packing group (ADR, IMDG, IATA)</b>	Not applicable
<b>14.5 Environmental hazards (ADR, IMDG, IATA)</b>	The product should not be marked as a marine pollutant.
<b>14.6 Special procedures</b>	Not applicable
<b>14.7 Transport in bulk</b>	Not applicable

<b>15. REGULATORY INFORMATION</b>
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<b>15.1 Safety, health and environmental regulations</b>	The product is classified in accordance with EC Regulation 1272/2008 (CLP), Other regulatory information and provisions are not applicable for this product.
<b>15.2 Chemical safety assessment</b>	Not applicable

<b>16. OTHER INFORMATION</b>
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**Further information**                      The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

**Hazard statements referred to in sections 2/3**

H312:     Harmful in contact with skin.  
H332:     Harmful if inhaled.

**Sources of data**                            Other suppliers' safety data sheets; EH40/2011

**Date of issue**                                01-06-2015

**This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.**