

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 product identifier**

Product code : KT106MPG01  
 Product name : MULTIFOUNT PLUS; 20KG

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

Product use : Fountain Solution concentrate for Lithographic Printing  
 Uses advised against : None known.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer / Distributor : Flint Group,  
 Print Media Europe,  
 Varn House,  
 Northbank Industrial Park,  
 Irlam,  
 Greater Manchester,  
 M44 5BL  
 England.

e-mail address of person responsible for this SDS : compliance.centre@flintgrp.com

**1.4 Emergency telephone number (with hours of operation)**

+44 (0) 161 775 5412 (8:00 h - 17:00 h)

**History**

Date of printing : 21.03.2013.  
 Date of issue/ Date of revision : 12.12.2012.  
 Date of previous issue : No previous validation.  
 Version : 4.01

**2. HAZARDS IDENTIFICATION****Classification and labeling according to Regulation (EC) 1907/2006 (REACH)**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**2.1b Classification of the substance or mixture**

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38  
 R43

Physical/chemical hazards : Not applicable.  
 Human health hazards : Irritating to eyes and skin. May cause sensitization by skin contact.  
 Environmental hazards : Not applicable.

**2.2b Label elements**

Hazard symbol or symbols :



Irritant

Risk phrases : R36/38- Irritating to eyes and skin.  
 R43- May cause sensitization by skin contact.

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## 2. HAZARDS IDENTIFICATION

**Safety phrases** : S23- Do not breathe gas, vapor or spray.  
 S24- Avoid contact with skin.  
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37- Wear suitable gloves.  
 S60- This material and its container must be disposed of as hazardous waste.

**Contains** : mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

### 2.3 Other hazards which do not result in classification

Results of PBT and vPvB assessment: See sections 12 for details.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	%	REACH Registration number	CAS number	EC number	Classification
2-butoxyethanol	3-5	01-2119475108-36-XXXX	111-76-2	203-905-0	Xn; R20/21/22 [1] Xi; R36/38 [2]
bronopol (INN)	0.1-1		52-51-7	200-143-0	Xn; R21/22 [1] Xi; R41, R37/38 N; R50
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0015-0.06		55965-84-9		T; R23/24/25 [1] C; R34 R43 N; R50/53

See section 16 for the full text of the R-phrases declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

Hazardous ingredients / Classification according to Regulation (EC) 1272/2008 (CLP)

Chemical name	CAS number	Hazard statements	Classification
2-butoxyethanol	111-76-2	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.  Causes skin irritation.  Causes serious eye irritation.	ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4 ACUTE TOXICITY: INHALATION - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
bronopol (INN)	52-51-7	Harmful if swallowed. Harmful in contact with skin. Causes skin irritation.  Causes serious eye damage.  May cause respiratory irritation.  Very toxic to aquatic life.	ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3 AQUATIC TOXICITY (ACUTE) -

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.  Causes severe skin burns and eye damage. May cause an allergic skin reaction.  Very toxic to aquatic life with long lasting effects.	Category 1  ACUTE TOXICITY: ORAL - Category 3 ACUTE TOXICITY: SKIN - Category 3 ACUTE TOXICITY: INHALATION - Category 3 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 1
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**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention/advice.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Give nothing by mouth. Do NOT induce vomiting.

Use suitable protective equipment (section 8).

**4.2 Most important symptoms and effects, both acute and delayed**

See toxicological information (section 11)

**4.3 Indication of any immediate medical attention and special treatment needed**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable Extinguishing media** : Recommended:, alcohol-resistant foam, CO<sub>2</sub>, powders, water spray
- Extinguishing media not to be used** : Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**5.3 Advice for fire-fighters**

Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

- Exclude sources of ignition and ventilate the area.
- Avoid breathing vapor or spray. Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions**

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and materials for containment and cleaning up**

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## 6. ACCIDENTAL RELEASE MEASURES

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

### 6.4 Reference to other sections

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapor, spray or mist. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

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

Store in accordance with all local, regional, national and international regulations.  
Store in a dry, cool and well-ventilated area, away from incompatible materials (see section 10).  
Observe label precautions. Keep container tightly closed and in a well-ventilated place.

Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature: > 5 °C

### 7.3 Specific end use(s)

Not applicable.

### 7.4 Additional information

Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Ingredient name	Occupational exposure limits
propane-1,2-diol	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Particulate TWA: 474 mg/m <sup>3</sup> 8 hour(s). Form: Sum of vapour and particulates TWA: 150 ppm 8 hour(s). Form: Sum of vapour and particulates
2-butoxyethanol	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.</b> STEL: 50 ppm 15 minute(s). TWA: 25 ppm 8 hour(s).

**Other Exposure limits** : CMR: See toxicological information (section 11)

### 8.2 Exposure controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

#### Individual protection measures

- Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear protective clothing.
- Hands** : The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

For prolonged or repeated handling, use the following type of gloves:

Recommended:

4-8 hours: polyethylene (PE) or Viton gloves.

References: <http://www.esig.org/en/library/publications/best-practice-guides>

**Eyes** : Use safety eyewear designed to protect against splash of liquids.

**Environmental exposure controls**

Do not allow to enter drains or watercourses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Green.
<b>Odor</b>	: Characteristic.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: $\geq 100$ °C
<b>Flash point</b>	: Closed cup: $> 100$ °C [theoretical]
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not applicable.
<b>Burning time</b>	: Not applicable.
<b>Burning rate</b>	: Not applicable.
<b>Explosion limits</b>	
<b>Lower:</b>	: Not available.
<b>Upper:</b>	: Not available.
<b>Vapor pressure</b>	: $\leq 23$ hPa
<b>Vapor density</b>	: Not available.
<b>Density</b>	: $\sim 1.1$ g/cm <sup>3</sup>
<b>Solubility</b>	: Soluble in water in any proportion.
<b>Octanol/water partition coefficient</b>	: Not available.
<b>Auto-ignition temperature</b>	: ca 244 °C
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidizing properties</b>	: Not available.

### 9.2 Other information

**SADT** : Not available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Not available.

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## 10. STABILITY AND REACTIVITY

### 10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

### 10.5 Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions:  
oxidizing agents, strong alkalis, strong acids

### 10.6 Hazardous decomposition products

Decomposition products may include the following materials:  
carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 3 for details.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

### Substances / Mixtures

#### Acute toxicity

:

Product/ingredient name	Result	Species	Dose	Exposure
bronopol (INN)	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	800 mg/m3 >2000 mg/kg	4 hours -
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	342 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-

#### Irritation/Corrosion

: Causes eye irritation. Irritating to skin.

#### Sensitization

: May produce an allergic reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### Mutagenicity

: Not available.

#### Carcinogenicity

: Not available.

#### Reproductive toxicity

: Not available.

#### Specific target organ toxicity (single exposure)

: Not available.

#### Specific target organ toxicity (repeated exposure)

: Not available.

#### Aspiration hazard

: Not available.

#### Chronic toxicity

: Not available.

#### Teratogenicity

: Not available.

### Other information

#### Toxicokinetics

##### Absorption

: Not available.

##### Distribution

: Contains material which causes damage to the following organs: eye, lens or cornea.  
Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS).

##### Metabolism

: Not available.

##### Elimination

: Not available.

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## 12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment but contains a substance or substances dangerous for the environment. See section 3 for details.

### 12.1 Toxicity data

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 800000 ug/L Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 ug/L Marine water	Fish - Menidia beryllina - 40 to 100 mm	96 hours
	Chronic NOEC 1000 mg/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
bronopol (INN)	Acute EC50 1.6 ppm Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 20 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

### 12.2 Persistence/degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : P: Not available. B: Not available. T: Not available.

**vPvB** : vP: Not available. vB: Not available.

### 12.6 Other adverse effects

**AOX** : The product contains organically bound halogens and can contribute to the AOX value in waste water.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**European waste catalogue (EWC)** : The European Waste Catalogue classification of this product, when disposed of as waste, is: 07 07 01\* aqueous washing liquids and mother liquors. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

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## 14. TRANSPORT INFORMATION

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### International transport regulations

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

**14.1 UN number** : Not applicable.

**14.2 Proper shipping name** : Not applicable.

**14.3 Transport hazard class(es)** : Not applicable.

**14.4 Packing group** : Not applicable.

**14.5 Environmental hazards** : Not applicable.

**14.6 Special precautions for user** : Not applicable.

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

Not applicable.

## 15. REGULATORY INFORMATION

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

**EU regulations** : The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

See sections 2 and 3 for details.

**VOC content** : ~ 11.9 % ~ 129.9 g/L

**Europe inventory** : All components are listed or exempted.

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

## 16. OTHER INFORMATION

**CEPE MSDS Code** : 8

### **Full text of R-phrases referred to in sections 2 and 3 - Europe**

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R21/22- Harmful in contact with skin and if swallowed.

R34- Causes burns.

R41- Risk of serious damage to eyes.

R36/38- Irritating to eyes and skin.

R37/38- Irritating to respiratory system and skin.

R43- May cause sensitization by skin contact.

R50- Very toxic to aquatic organisms.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**The information in this Safety Data Sheet is required pursuant to Annex II to Regulation (EC) No 1907/2006.**

**Date of issue/Date of** : 12.12.2012.

**revision**

**Version** : 4.01

☑ Indicates information that has changed from previously issued version.

### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

**Date of issue/Date of** : 12.12.2012.  
**revision**

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