

Issuing Date: 26-January-2012 Revision Date: 1- April -2016

Version: 6

SDS No: GC-30M18-EUUSOTHER

Product name: GC-30M18, GC-30M38, GC-30M4K Ink

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name GC-30M18, GC-30M38, GC-30M4K Ink

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

Relevant Identified Use(s) Water based pigment ink (Mixture).

1.3 Details of the supplier of the safety data sheet

Manufacturer Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer (USA) Brother International Corporation

200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437

Importer (Europe) Brother Internationale Industriemaschinen GmbH

Dusseldorfer Str. 7-9, D-46446, Emmerich, am Rhein, Germany

Telephone (for information): +49-2-822-6090

Importer (Australia) Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia

Telephone (for information): +61-2-9887-4344

Importer (New Zealand) BROTHER INTERNATIONAL (NZ) LTD.

27 Matarawa Place, Tauriko Business Estate, Tauriko, Tauranga, New Zealand

Telephone (for information): +64-7-543-5600

Importer (Singapore) BROTHER INTERNATIONAL SINGAPORE PTE. LTD.

10 Eunos Road 8, #14-01/02 Singapore Post Centre, Singapore 408600

Telephone (for information): +65-6538-0311

Importer (Asia) BROTHER MACHINERY ASIA LTD.

12/F, PeakCastle, 476 Castle Peak Road, Kowloon, Hong Kong

Telephone (for information): +852-2777-0010

Importer (China) BROTHER MACHINERY SHANGHAI LTD.

Room B, 3/F., No.567, West Tianshan Rd., ChangNing District, Shanghai 200335, P.R.China

Telephone (for information): +86-21-2225-6666

E-mail Address sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone

(24 hours) +1-703-527-3887 (International)

+1-800-424-9300 (North America)

For France only:

CHEMTREC

Antipoison Center telephone number: ORFILA +33-1-45-425-959

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# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Full text of H-phrases: see section 16

Classification according to Directive 1999/45/EC

Not classified as hazardous

**Australia Classification** 

Classified as hazardous according to the criteria of NOHSC

#### 2.2 Label elements

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

#### **Hazard pictograms**



Signal Word Warning

**Hazard Statements** H302 - Harmful if swallowed

**Precautionary statements** 

P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant.

**EUH-statements** EUH208 - Contains 1,2-benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction

#### 2.3 Other hazards

This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).



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# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description of the mixture: Water based pigment ink (Mixture)

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Diethylene glycol	111-46-6	203-872-2	40-50	Xn; R22	Acute Tox. 4 (H302)
Glycerol	56-81-5	200-289-5	1-5	Not classified	Not classified
Ethylene glycol	107-21-1	203-473-3	<1	Xn; R22	Acute Tox. 4 (H302)
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice If symptoms persist, obtain medical attention.

Inhalation Obtain immediate medical attention. In case of accident by inhalation remove casualty to fresh air

and keep at rest

Skin contact Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and

water.

Eye contact Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of

water for at least 15 minutes.

Ingestion Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to

drink.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Repeated and/or prolonged skin contact may cause irritation.

Eye contact: May cause eye irritation. Tears. Reddening.

Inhalation: May be harmful if inhaled.

Ingestion: Nausea, headache, vomiting. Effects may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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# SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the

substance or mixture

Water based inkjet ink. The product is not itself flammable, but residue that remains if the water it

contains has been allowed to evaporate is flammable.

**5.3 Advice for firefighters** A self contained breathing apparatus and suitable protective clothing should be worn in fire

conditions.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency

procedures

Wear suitable protective clothing. Gloves and eye/face protection.

**6.2 Environmental precautions** Avoid release to the environment. Do not allow to enter drains, sewers or water courses.

6.3 Methods and materials for containment and cleaning up

Small spillage: Wash spill area with soapy water. To be disposed of as hazardous waste. Large spillage: Absorb spillages onto sand, earth or any suitable adsorbent material. To be

disposed of as hazardous waste.

6.4 Reference to other sections

For personal protection: See section 8. For disposal considerations: See section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling Wear suitable respiratory protective equipment. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Avoid leaking, rolling or dropping.

**7.3 Specific end use(s)** Water based pigment ink (Mixture).

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

ΕN

# Occupational Exposure Limits

Chemical Name	Diethylene glycol 111-46-6
ACGIH TLV	-
OSHA PEL	•
European Union	-
The United Kingdom	STEL: 69 ppm STEL: 303 mg/m³ TWA: 23 ppm TWA: 101 mg/m³
Germany	TWA: 10 ppm TWA: 44 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³



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# **SAFETY DATA SHEET**

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Denmark	TWA: 2.5 ppm
	TWA: 11 mg/m <sup>3</sup>
Austria	STEL 470 ppm
	STEL 176 mg/m³ TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Switzerland	STEL: 40 ppm
Switzerialiu	STEL: 40 ppm STEL: 176 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 44 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Ireland	TWA: 23 ppm
ireland	TWA: 100 mg/m <sup>3</sup>
Chemical Name	Glycerol
Chomical Name	56-81-5
ACGIH TLV	TWA: 10 mg/m³ mist
OSHA PEL	TWA: 15 mg/m³ mist, total particulate
OOHAT EE	TWA: 5 mg/m³ mist, respirable fraction
European Union	-
The United Kingdom	STEL: 30 mg/m <sup>3</sup>
mo omica rangacin	TWA: 10 mg/m <sup>3</sup>
France	TWA: 10 mg/m <sup>3</sup>
Spain	TWA: 10 mg/m <sup>3</sup>
Germany	TWA: 50 mg/m <sup>3</sup>
Germany	Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 10 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m³
Switzerialiu	TWA: 50 mg/m <sup>3</sup>
Poland	TWA: 30 mg/m <sup>3</sup>
	IVVA. IO IIIQ/III
Ireland	TWA: 10 mg/m <sup>3</sup>
	TWA: 10 mg/m³  Ethylene glycol
Ireland Chemical Name	TWA: 10 mg/m <sup>3</sup> Ethylene glycol  107-21-1
Ireland Chemical Name ACGIH TLV	TWA: 10 mg/m³  Ethylene glycol
Ireland Chemical Name  ACGIH TLV OSHA PEL	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only
Ireland Chemical Name ACGIH TLV	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S*
Ireland Chemical Name  ACGIH TLV OSHA PEL	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 40 ppm STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 40 ppm STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³ STWA: 10 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 20 ppm TWA: 20 ppm TWA: 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 52 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 40 ppm STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ STWA: 10 mg/m³ STEL: 40 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  - S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ STEL: 30 ppm TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ STWA: 10 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ S*  TWA: 10 mg/m³ S*  TWA: 40 ppm STEL: 104 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  -  S*  TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 40 ppm STEL: 30 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 40 ppm STEL: 40 ppm STEL: 104 mg/m³ S*  S*  STEL: 40 ppm STEL: 104 mg/m³ TWA: 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France  Spain	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 20 ppm TWA: 52 mg/m³ TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ TWA: 20 ppm STEL: 104 mg/m³
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France  Spain	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France  Spain	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France  Spain	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only  S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  TWA: 10 mg/m³ S*  S*  TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ S*  S*  TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ STEL: 104 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ STEL: 104 mg/m³ TWA: 20 ppm
Ireland Chemical Name  ACGIH TLV OSHA PEL European Union  The United Kingdom  France  Spain	TWA: 10 mg/m³  Ethylene glycol 107-21-1  Ceiling: 100 mg/m³ aerosol only



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Italy	TWA: 20 ppm
·	TWA: 52 mg/m <sup>3</sup>
	STEL: 40 ppm
	STEL: 104 mg/m <sup>3</sup>
	S*
Portugal	Ceiling: 100 mg/m <sup>3</sup>
The Netherlands	S*
	STEL: 104 mg/m³
	TWA: 52 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 ppm
	TWA: 50 mg/m <sup>3</sup>
	STEL: 40 ppm
	STEL: 100 mg/m <sup>3</sup>
	S*
Denmark	TWA: 10 ppm
	TWA: 26 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>
	S*
Austria	S*
	STEL 20 ppm
	STEL 52 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 26 mg/m <sup>3</sup>
Switzerland	S*
	STEL: 20 ppm
	STEL: 52 mg/m <sup>3</sup>
	TWA: 10 ppm
	TWA: 26 mg/m³
Poland	NDSCh: 50 mg/m <sup>3</sup>
	TWA: 15 mg/m <sup>3</sup>
Norway	TWA: 10 mg/m <sup>3</sup>
	S*
	Ceiling: 25 ppm
	STEL: 20 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>
	TWA: 20 ppm
	TWA: 52 mg/m <sup>3</sup>
	STEL: 40 ppm
	STEL: 104 mg/m <sup>3</sup>
Possibility of significant untake through the skin	S*

S\* - Possibility of significant uptake through the skin

#### 8.2 Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Eye Protection Safety goggles. Hand Protection Protective gloves.

Skin and body protection Long sleeved clothing and long pants.

Respiratory protection Large spillages: Wear suitable respiratory protective equipment.

Environmental Exposure Controls Avoid release to the environment.



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### SECTION 9: Physical and chemical properties

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

Appearance

Physical state Liquid
Color Red
Odor Slight

Odor Threshold No information available

pH 7 - 9

Melting point/freezing point

No information available

Initial boiling point and boiling range > 100 °C

Flash Point Does not flash at 93.3°C or lower (closed cup)

Evaporation rate No information available

Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive No information available

limits

mability of explosive Two information available

 $\begin{array}{lll} \mbox{Vapor pressure} & \mbox{No information available} \\ \mbox{Vapor density} & \mbox{No information available} \\ \mbox{Relative density} & \mbox{1.0} & - \mbox{1.2} & (\mbox{H}_2\mbox{O}=1) \\ \mbox{Solubility(ies)} & \mbox{Miscible (water)} \end{array}$ 

Partition coefficient: n-octanol/water
Auto-ignition temperature

Decomposition temperature

No information available
No information available
No information available

Viscosity Confidential Explosive properties Not explosive

Oxidizing properties No information available

#### 9.2 Other information

No information available.

#### SECTION 10: Stability and reactivity

**10.1 Reactivity** No information available.

10.2 Chemical stability Stable.

10.3 Possibility of hazardous

reactions

No information available.

**10.4 Conditions to avoid**No information available.

**10.5 Incompatible materials** Strong oxidizing agents.

10.6 Hazardous decomposition

products

Contains: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).



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# SECTION 11: Toxicological information

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#### 11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed.

ATE CLP (oral) 957.00 mg/kg body weight
ATE CLP (dermal) 21120.00 mg/kg body weight

15.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Skin corrosion/irritation** Repeated or prolonged contact may cause irritation.

Serious eye damage/irritation May cause eye irritation. Tears. Reddening.

Respiratory or skin sensitisation Repeated and/or prolonged contact may cause skin sensitization. Contains: <0.03% Preservative

Mutagenicity No information available.

Carcinogenicity Printing Ink: IARC Classification: Group 3. Non-classified Human Carcinogen.

Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA.



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**SECTION 12: Ecological information** 

#### 12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Diethylene glycol 111-46-6		LC <sub>50</sub> : 75200 mg/L 96 h flow-through (Pimephales promelas)	EC <sub>50</sub> : 84000 mg/L 48 h (Daphnia magna)
Glycerol		LC <sub>50</sub> : 51 - 57 mL/L 96 h	EC <sub>50</sub> : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Ethylene glycol	EC <sub>50</sub> : 6500 - 13000 mg/L 96 h	LC <sub>50</sub> : 41000 mg/L 96 h (Oncorhynchus mykiss) LC <sub>50</sub> : 14 - 18 mL/L 96 h static (Oncorhynchus mykiss) LC <sub>50</sub> : 27540 mg/L 96 h static (Lepomis macrochirus) LC <sub>50</sub> : 40761 mg/L 96 h static (Oncorhynchus mykiss) LC <sub>50</sub> : 40000 - 60000 mg/L 96 h static (Pimephales promelas) LC <sub>50</sub> : 16000 mg/L 96 h static (Poecilia reticulata)	EC <sub>50</sub> : 46300 mg/L 48 h
107-21-1	(Pseudokirchneriella subcapitata)		(Daphnia magna)

12.2 Persistance and degradability

No information available

#### 12.3 Bioaccumulative potential

Chemical Name	log Pow
Diethylene glycol	-1.98
Glycerol	-1.76
Ethylene glycol	-1.93

**12.4 Mobility in soil** No information available.

12.5 Results of PBT and vPvB

assessment

ΕN

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating

(vPvB).

**12.6 Other adverse effects**No information available

# **SECTION 13: Disposal considerations**

**13.1 Waste treatment methods** Dispose of in accordance with Federal, State, and local regulations.

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Issuing Date: 26-January-2012 Revision Date: 1- April -2016

Version: 6 SDS No: GC-30M18-EUUSOTHER

Product name: GC-30M18, GC-30M38, GC-30M4K Ink

# **SECTION 14: Transport information**

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number None

14.2 UN proper shipping name None

14.3 Transport hazard class(es) None

14.4 Packing Group None

14.5 Environmental hazards None

14.6 Special precautions for user None

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

Not applicable

# SECTION 15: Regulatory information

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

EU: Classified as hazardous for supply/use. (1999/45/EC)

**USA:** All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.

Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

#### **SECTION 16: Other information**

Full text of R-phrases referred to

under sections 2 and 3

R22 - Harmful if swallowed

R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitisation by skin contact

R50 - Very toxic to aquatic organisms

Full text of H-Statements referred to

under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H400 - Very toxic to aquatic life

Additional information

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of

preparation (revision).

Revision Note Section1

References: U.S. 29CFR Part 1910

ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices

IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization

EU Directive 91/322/EEC and 2000/39/EC

NTP 11th Report on Carcinogens



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Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International carriage of Dangerous goods by Road

DOT: Department Of Transportation (US)

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

NOHSC: National Occupational Health and Safety Commission (Australia)

NTP: National Toxicology Program (US)
OSHA: Occupational Safety and Health Administration (US)

PEL: Permissible Exposure Limit

RID: Regulations concerning the International carriage of goods by Rail (EU)

TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US)

WHMIS: Workplace Hazardous Material Information System (Canada)