SAFETY DATA SHEET

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

Product Name: GC-30M18, GC-30M38

Use: Water based Pigment Ink.

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
P.O. Box 6911, 100 Somerset Corporate Boulevard, Bridgewater, NJ 08807-0911, USA
Telephone (for information): +1-800-284-4329

Importer Europe: Brother Internationale Industriemaschinen GmbH
Dusseldorfer Str. 7-9,
-46446,
Emmerich, am Rhein,
Germany
Telephone (for information): +49-2-822-6090

Emergency Phone No.: CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)
For France only:
Antipoison Center telephone number: ORFILA +33-1-45-425-959

E-mail address for information: sds.info@brother.co.jp

2. HAZARDS IDENTIFICATION

Potential Health Effects: Inhalation:
May be harmful if inhaled.
Skin Contact:
Repeated and/or prolonged skin contact may cause irritation. Repeated and/or prolonged contact may cause skin sensitization. Contains: Preservative <0.03%
Eye Contact:
May cause eye irritation. Tears. Reddening.
Ingestion:
Mild irritant: Throat. Mouth. and Stomach.
Environmental hazards:
Not available.

EC Classification: Classified as hazardous for supply/use according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. according to EU Directive 1999/45/EC. and 67/548/EEC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Water based inkjet ink (Mixture).

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Diethylene glycol (1)	111-46-6	203-872-2	40 - 50	Xn	R22
Ethylene glycol (1)	107-21-1	203-473-3	<1	Xn	R22
Glycerol (2)	56-81-5	200-289-5	1 - 5	-	-

(1) according to EU Directive 67/548/EEC.

(2) OSHA HCS (29 CFR 1910.1200)

4. FIRST AID MEASURES

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 200-300 ml (half a pint) of water to drink.

Further Medical Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General: Water based inkjet ink Non-flammable. Non-combustible.
This product is not itself flammable, but the residue that remains if the water it contains has been allowed to evaporate is flammable.

Extinguishing Media: None.

Special firefighting procedures: None.

6. ACCIDENTAL RELEASE MEASURES

Small spillages: Wash spill area with soapy water. To be disposed of as hazardous waste.

Large spillages: Adsorb spillages onto sand, earth or any suitable adsorbent material.

Water: Do not allow to enter drains, sewers or watercourses.

Large spillages: Adsorb spillages onto sand, earth or any suitable adsorbent material. To be disposed of as hazardous waste.

Personal Protection: Wear suitable protective clothing, gloves and eye/face protection. See Section: 8.

7. HANDLING AND STORAGE

Handling: Wear suitable respiratory protective equipment.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

SUBSTANCE	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Ethylene glycol	107-21-1	Not established	STEL C100mg/m^3	52mg/m3,STEL104mg/m^3
Glycerol	56-81-5	15mg/m^3(total dust), 5mg/m^3(respirable fraction)	10mg/m^3(mist)	Not established

Environmental Exposure Controls: Contain effluent and prevent effluent from entering sewers and waterways. Observe Local Regulations.

Personal Protection: Respirators: No personal respiratory protective equipment normally required.

Eye/face: Goggles.

Skin: Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH (Value): 7 - 9

Form: Liquid.

Odor: Slight.

Boiling Point (°C): > 100

Flash Point (°C): None.

Flammable Limits (Upper) (%v/v): No data.

Flammable Limits (Lower) (%v/v): No data.

Auto Ignition Temperature (°C): No data.

Specific Gravity: 1.0 - 1.2 g/cm3 (H_2O)

Vapor Density (Air=1): No data.

Solubility (Water): Very soluble.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous Reactions: Not available.

Conditions to avoid: Not applicable.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Product(s): Not available.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute LD50 (oral/rat): 12,565 mg/kg Diethylene Glycol

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

Carcinogenicity Information.

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

12. ECOLOGICAL INFORMATION

Do not allow to enter drains, sewers or watercourses.

Toxicity: Not available.

Environmental Fate and Distribution: The product is soluble in water.

Persistence and Degradation: The product is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

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

UN No.: Not applicable.

Class: Not applicable.

UN Packing Group: Not applicable.

15. REGULATORY INFORMATION

USA:	All components of this product are listed on the TSCA Inventory.
EU:	Classified as hazardous for supply/use according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. according to EU Directive 1999/45/EC. and 67/548/EEC.
Hazard Symbol:	Xn
Risk Phrases:	R22
Safety Phrases:	S2,S26,S46,S60

16. OTHER INFORMATION

The following sections contain revisions or new statements: All sections.

EU Hazard Symbols	Xn: Harmful.
Risk Phrases	R22: Harmful if swallowed.
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).
Reference:	- U.S. 29CFR Part 1910 - ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices - EU Directive 91/322/EEC and 2000/39/EC - IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization - NTP 11th Report on Carcinogens
Abbreviations:	ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances HCS: Hazard Communication Standard (US) IARC: International Agency for Research on Cancer IOELV: Indicative Occupational Exposure Limit Value NOHSC: National Occupational Health and Safety Commission (Australia) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (US) PEL: Permissible Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US) WHMIS: Workplace Hazardous Material Information System (Canada)