

Product Name: GC-30C, GC-30C18, GC-30C38, GC-30C4K Ink

Revision date: 24-May-2024
Issuing Date: 26-Jan-2012
Revision Number: 9
Safety data sheet number: GC-30C18

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

1.1. Product identifier

Safety data sheet number GC-30C18
Product Name GC-30C, GC-30C18, GC-30C38, GC-30C4K Ink

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Water based ink for inkjet printing machine
Uses advised against No information available

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

Supplier

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

(Asia)

BROTHER MACHINERY ASIA LTD.
17/F., Fugro House-KCC 2, No.1 Kwai On Road, Kwai Chung, New Territories, Hong Kong SAR
Telephone (for information): +852-2777-0010

For further information, please contact

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

1.4. Emergency telephone number

Emergency Telephone CHEMTREC +1-703-527-3887 (International)
For France only:
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
Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]
EUH208 - Contains 1,2-benzisothiazol-3(2H)-one May produce an allergic reaction.
EUH210 - Safety data sheet available on request

Unknown acute toxicity

- 0.005 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 42.505 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 42.505 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 3.005 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity Contains 0.005 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

May be harmful if swallowed.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No.	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Water	7732-18-5	231-791-2	40-65	No data available	-	-	-	Not applicable
Glycerol	56-81-5	200-289-5	15-25	No data available	-	-	-	Not applicable
Diethylene glycol	111-46-6	203-872-2 (603-140-00-	15-24	Acute Tox. 4 (H302)	-	-	-	Not applicable

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		6)						
Cyan Pigment (Copper compounds)	**	**	1-5	No data available	-	-	-	Not applicable
Ethylene glycol	107-21-1	203-473-3 (603-027-00-1)	<1	Acute Tox. 4 (H302)	-	-	-	Not applicable
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9 (613-088-00-6)	<0.036	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Skin Sens. 1 :: C>=0.05%	-	-	Not applicable

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Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
Glycerol 56-81-5	12600	10000	2.75	No data available	No data available
Diethylene glycol 111-46-6	12565	11890	4.6	No data available	No data available
Cyan Pigment (Copper compounds)	10000	5000	No data available	No data available	No data available
Ethylene glycol 107-21-1	4700	10600	3.75	No data available	No data available
1,2-benzisothiazol-3(2H)-one 2634-33-5	1020	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

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4.1. Description of first aid measures

General advice	If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.
Eye contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact:	Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water.
Ingestion	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.
Self-protection of the first aider	No information available.

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

Symptoms	Skin contact: Repeated and/or prolonged skin contact may cause irritation Eye contact : May cause eye irritation May cause redness and tearing of the eyes Inhalation : May be harmful if inhaled Ingestion : Ingestion above therapeutic dose may cause nausea, vomiting, dizziness, and headache Symptoms may be delayed
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam
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Unsuitable extinguishing media	None.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Water-based inkjet ink. The product itself is not flammable, but the residue left after evaporating the water contained in the product is flammable.
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5.3. Advice for firefighters

Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin, eyes or clothing

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Wipe up with absorbent towel Wash with water to remove remaining traces of ink.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed. Keep out of reach of children.

7.3. Specific end use(s)

Specific use(s) Water based ink for inkjet printing machine.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Glycerol 56-81-5	-	-	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³ STEL 40 ppm STEL 176 mg/m ³	-	TWA: 10 mg/m ³	TWA: 23 ppm TWA: 101 mg/m ³
Cyan Pigment (Copper compounds)	-	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL 4 mg/m ³ STEL 0.4 mg/m ³	-	-	-
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *	TWA: 10 ppm TWA: 26 mg/m ³ STEL 20 ppm STEL 52 mg/m ³ H*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ D*	STEL: 40 ppm STEL: 104 mg/m ³ TWA: 52 mg/m ³ TWA: 20 ppm K*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Glycerol 56-81-5	-	TWA: 10 mg/m ³ Ceiling: 15 mg/m ³	-	TWA: 10 mg/m ³	TWA: 20 mg/m ³
Diethylene glycol 111-46-6	-	-	TWA: 2.5 ppm TWA: 11 mg/m ³ STEL: 5 ppm STEL: 22 mg/m ³	TWA: 10 ppm TWA: 45 mg/m ³ STEL: 20 ppm STEL: 90 mg/m ³ A*	-
Cyan Pigment (Copper compounds)	-	-	-	-	TWA: 0.02 mg/m ³
Ethylene glycol 107-21-1	* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	TWA: 50 mg/m ³ Ceiling: 100 mg/m ³ D*	TWA: 10 ppm TWA: 26 mg/m ³ TWA: 10 mg/m ³ H* STEL: 104 mg/m ³ STEL: 40 ppm STEL: 20 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ A*	TWA: 20 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 100 mg/m ³ iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Glycerol 56-81-5	TWA: 10 mg/m ³	TWA: 200 mg/m ³	TWA: 200 mg/m ³ Peak: 400 mg/m ³	TWA: 10 mg/m ³	-
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Peak: 40 ppm Peak: 176 mg/m ³	-	-
Cyan Pigment (Copper compounds)	-	-	-	-	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³

Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *	TWA: 10 ppm TWA: 26 mg/m ³ H*	TWA: 10 ppm TWA: 26 mg/m ³ Peak: 20 ppm Peak: 52 mg/m ³ *	TWA: 50 ppm TWA: 125 mg/m ³ STEL: 50 ppm STEL: 125 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ b*
1,2-benzisothiazol-3(2H)- one 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Diethylene glycol 111-46-6	TWA: 23 ppm TWA: 100 mg/m ³ STEL: 69 ppm STEL: 300 mg/m ³	-	-	TWA: 10 mg/m ³	O* TWA: 10 ppm TWA: 45 mg/m ³ STEL: 20 ppm STEL: 90 mg/m ³
Cyan Pigment (Copper compounds)	-	-	TWA: 1 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Sk*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ cute*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ada*	O* TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 50 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	TWA: 10 mg/m ³
Diethylene glycol 111-46-6	-	-	-	-	TWA: 10 mg/m ³
Ethylene glycol 107-21-1	Peau* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	skin* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	TWA: 52 mg/m ³ TWA: 10 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ H*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 104 mg/m ³ STEL: 40 ppm H*	STEL: 50 mg/m ³ TWA: 15 mg/m ³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Glycerol 56-81-5	TWA: 10 mg/m ³	-	TWA: 11 mg/m ³	TWA: 200 mg/m ³ STEL: 400 mg/m ³	TWA: 10 mg/m ³
Diethylene glycol 111-46-6	-	TWA: 115 ppm TWA: 500 mg/m ³ STEL: 184 ppm STEL: 800 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Ceiling: 90 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³	-
Cyan Pigment (Copper compounds)	-	-	-	-	TWA: 0.01 mg/m ³
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ceiling: 100 mg/m ³ Cutânea*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ P*	TWA: 20 ppm TWA: 52 mg/m ³ K* Ceiling: 104 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ K*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ via dérmica*
Chemical name	Sweden		Switzerland		United Kingdom
Glycerol 56-81-5	-		TWA: 50 mg/m ³ STEL: 100 mg/m ³		TWA: 10 mg/m ³ STEL: 30 mg/m ³
Diethylene glycol	NGV: 10 ppm		TWA: 10 ppm		TWA: 23 ppm

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111-46-6	NGV: 45 mg/m ³ Vägledande KGV: 20 ppm Vägledande KGV: 90 mg/m ³ H*	TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³	TWA: 101 mg/m ³ STEL: 69 ppm STEL: 303 mg/m ³
Cyan Pigment (Copper compounds)	-	-	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Ethylene glycol 107-21-1	NGV: 10 ppm NGV: 25 mg/m ³ Bindande KGV: 40 ppm Bindande KGV: 104 mg/m ³ H*	TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52 mg/m ³ H*	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ STEL: 30 mg/m ³ Sk*

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

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

Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

Eye/face protection Safety goggles

Hand protection Protective gloves

Skin and body protection Long sleeved clothing and long pants

Respiratory protection In case of large spillages: Wear suitable respiratory protective equipment.

Thermal hazards No information available.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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

Physical state	Liquid
Color	blue
Odor	Slight
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No information available	
Initial boiling point and boiling range	No information available	
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 93.3 °C	CC (closed cup)
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
pH	7 - 9	
pH (as aqueous solution)	No information available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No information available	
Water solubility	Miscible in water	None known
Solubility(ies)	No information available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.0 - 1.2	(H ₂ O=1)
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	No data available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosives	
Explosive properties	Not explosive
Oxidizing properties	No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

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10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

Conditions to avoid No information available.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide, Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation No information available

Eye contact No information available.

Skin contact No information available.

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 423 method)

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 23,584.70 mg/kg
 ATEmix (inhalation-dust/mist) 23.60 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Cyan Pigment (Copper compounds)	> 10000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
1,2-benzisothiazol-3(2H)-one	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Repeated and/or prolonged skin contact may cause irritation

Serious eye damage/eye irritation May cause eye irritation. May cause redness and tearing of the eyes.

Respiratory or skin sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons

Germ cell mutagenicity No information available

Carcinogenicity Printing inks: 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

Reproductive toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration hazard No information available

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Based on available data, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Diethylene glycol	-	LC50: =75200mg/L (96h, Pimephales promelas)	EC50 = 29228 mg/L 15 min	EC50: =84000mg/L (48h, Daphnia magna)
Ethylene glycol	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =41000mg/L (96h, Oncorhynchus mykiss) LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata)	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	EC50: =46300mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76
Diethylene glycol	-1.98
Cyan Pigment (Copper compounds)	6.6
Ethylene glycol	-1.36
1,2-benzisothiazol-3(2H)-one	0.99

12.4. Mobility in soil

Mobility in soil No information available.

Mobility No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment 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

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bioaccumulating (vPvB).

Chemical name	PBT and vPvB assessment
Glycerol	The substance is not PBT / vPvB
Diethylene glycol	The substance is not PBT / vPvB
Cyan Pigment (Copper compounds)	The substance is not PBT / vPvB
Ethylene glycol	The substance is not PBT / vPvB
1,2-benzisothiazol-3(2H)-one	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with federal, state and local regulations.

SECTION 14: Transport information

IATA

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
Special Provisions None

IMDG

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
Special Provisions None
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable

RID

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14.1 UN number or ID number Not regulated
 14.2 UN proper shipping name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user
 Special Provisions None

ADR

14.1 UN number or ID number Not regulated
 14.2 UN proper shipping name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user
 Special Provisions None

SECTION 15: Regulatory information

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

National Regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Diethylene glycol - 111-46-6	RG 84
Ethylene glycol - 107-21-1	RG 84
1,2-benzisothiazol-3(2H)-one - 2634-33-5	RG 65

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Diethylene glycol - 111-46-6	75.	-
Cyan Pigment (Copper compounds) -	75.	-
1,2-benzisothiazol-3(2H)-one - 2634-33-5	Use restricted. See entry 75.	-

Persistent Organic Pollutants

Not applicable

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
1,2-benzisothiazol-3(2H)-one - 2634-33-5	Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 9: Fiber, leather, rubber and polymerized materials preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides Product-type 13: Working or cutting fluid preservatives

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

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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

Legend

SVHC: Substances of Very High Concern for Authorization:
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation
 + Sensitizers

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
- European Chemicals Agency (ECHA) (ECHA_API)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AEGL(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- U.S. Environmental Protection Agency High Production Volume Chemicals
- Food Research Journal
- Hazardous Substance Database
- International Uniform Chemical Information Database (IUCLID)

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National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Issuing Date 26-Jan-2012

Revision date 24-May-2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

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End of Safety Data Sheet