

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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

1.1. Product identifier

Safety data sheet number GCX-4C-1

Product Name GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1,
GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

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

(UK)

MHM Direct

Unit 9, The Stairway Langham Park Industrial Estate, Lows Ln, Stanton by Dale, Ilkeston DE7 4RJ, U.K.
Telephone (for information): +44-115-944-2285

(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

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

41.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

41.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

6.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

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).

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	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

				[CLP]				
Water	7732-18-5	231-791-2	55-65	No data available	-	-	-	Not applicable
Glycerol	56-81-5	200-289-5	15-20	No data available	-	-	-	Not applicable
Ethylene glycol	107-21-1	203-473-3 (603-027-00-1)	15-20	Acute Tox. 4 (H302)	-	-	-	Not applicable
Cyan Pigment (Copper compounds)	**	**	<10	No data available	-	-	-	Not applicable
1,2-benzisothiazol-3 (2H)-one	2634-33-5	220-120-9 (613-088-00-6)	<0.035	Acute Tox. 2 (H330) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Sens. 1A :: C>=0.036%	1	1	Not applicable

** CONFIDENTIAL

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	27200	10000	5.85	No data available	No data available
Ethylene glycol 107-21-1	4700	10600	3.75	No data available	No data available
Cyan Pigment (Copper compounds)	6400	5000	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-o ne 2634-33-5	450	2000	0.21	No data available	No data available

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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

4.1. Description of first aid measures

General advice	If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position 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 immediate medical advice/attention.
Skin contact:	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
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	Inhalation (Vapor / Mist) : No specific effects and/or symptoms have been reported or known For large quantities: May cause irritation to the respiratory system. Increased difficulty in breathing. Sneezing. Coughing
-----------------	--

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

Note to physicians	Treat symptomatically.
---------------------------	------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam
-------------------------------------	---

Unsuitable extinguishing media	None.
---------------------------------------	-------

5.2. Special hazards arising from the substance or mixture

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors
Carbon monoxide , Carbon dioxide (CO₂) , Nitrogen oxides (NO_x) , Oxides of sulfur

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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

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. Keep cool. Protect from sunlight.

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

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.

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
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 *
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	-	-	-
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
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*
Cyan Pigment (Copper compounds)	-	-	-	-	TWA: 0.02 mg/m ³
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	-
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*

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

 Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
 GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

Cyan Pigment (Copper compounds)	-	TWA: 0.2 mg/m ³ TWA: 0.045 mg/m ³	-	-	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
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
Cyan Pigment (Copper compounds)	-	-	TWA: 1 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	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: 10 mg/m ³	TWA: 200 mg/m ³ STEL: 400 mg/m ³	TWA: 10 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 vía dérmica*
Cyan Pigment (Copper compounds)	-	-	-	-	TWA: 0.01 mg/m ³
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
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*
Cyan Pigment (Copper compounds)	-		-		TWA: 1 mg/m ³ STEL: 2 mg/m ³

Biological occupational exposure limits

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

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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	Use appropriate respiratory protection.
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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	blue
Odor	None
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	No data available	

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

limits		
Lower flammability or explosive limits	No data available	
Flash point	> 93.3 °C	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
pH	8.0 - 9.5	
pH (as aqueous solution)	No information available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	<6.0 mPa·s	@ 25°C
Water solubility	Soluble in water	
Solubility(ies)	No information available	
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 No information available

Oxidizing properties

No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

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

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat. Keep away from water or moist air.

10.5. Incompatible materials

Incompatible materials Acids, Bases, Oxidizing agent, Reducing agent

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Oxides of sulfur

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 May be harmful if swallowed

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Glycerol	= 27200 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.85 mg/L (Rat) 4 h
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
Cyan Pigment (Copper compounds)	> 6400 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1,2-benzisothiazol-3(2H)-one	= 450 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.21 mg/L

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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

Skin corrosion/irritation No information available

Serious eye damage/eye irritation No information available

Respiratory or skin sensitization No information available

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

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
---------------	----------------------	------	----------------------------	-----------

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

Glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
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

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76
Ethylene glycol	-1.36
Cyan Pigment (Copper compounds)	6.6
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 bioaccumulating (vPvB).

Chemical name	PBT and vPvB assessment
Glycerol	The substance is not PBT / vPvB.
Ethylene glycol	The substance is not PBT / vPvB.
Cyan Pigment (Copper compounds)	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.

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

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

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

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

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
Ethylene glycol - 107-21-1	RG 84
1,2-benzisothiazol-3(2H)-one - 2634-33-5	RG 65, RG 66

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
Cyan Pigment (Copper compounds) -	Use restricted. See entry 75.	-
1,2-benzisothiazol-3(2H)-one - 2634-33-5	Use restricted. See entry 75.	-

Persistent Organic Pollutants

Not applicable

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 algicides 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

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1, GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

International Inventories

TSCA	Complies
DSL/NDL	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/NDL - 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

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
H330 - Fatal if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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)

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Safety data sheet number: GCX-4C-1

Ceiling
+ Maximum limit value
 Sensitizers * Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
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
Chronic aquatic toxicity	Calculation method
Acute 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)
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 12-Oct-2018

Product Name: GCX-4C-1, GCX-4C50-1, GCX-4C70-1, GCX-4C35-1, GCX-4C02-1,
GCX-4C20K-1, GCX-6C18L-1, GCX-6C09L-1, GCX-4C09L-1

Revision date: 14-Oct-2025

Issuing Date: 12-Oct-2018

Revision Number: 8

Safety data sheet number: GCX-4C-1

Revision date

14-Oct-2025

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet