

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

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

**1.1. Product identifier**

Safety data sheet number GCX-4E02  
Product Name GCX-4E, GCX-4E02, GCX-4E05

**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 cleaning solution 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  
(Singapore)  
BROTHER INTERNATIONAL SINGAPORE PTE. LTD.  
10 Eunos Road 8, #14-01/02 Singapore Post Centre, Singapore 408600, Singapore  
Telephone (for information): +65-6538-0311  
(Asia)  
BROTHER MACHINERY ASIA LTD.  
Unit 1207-11, 12/F, 9 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong  
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-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
 Issuing Date: 01-Jun-2017  
 Revision Number: 5  
 Safety data sheet number: GCX-4E02

**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.

30 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

30 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

0 % 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 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Water	7732-18-5	231-791-2	65-70	No data available	-	-	-	Not applicable

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

Glycerol	56-81-5	200-289-5	20-30	No data available	-	-	-	Not applicable
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9 (613-088-00-6)	<0.05	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

**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
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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Eye contact</b>	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.
<b>Skin contact:</b>	Take off immediately all contaminated clothing. Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**Ingestion** Do NOT induce vomiting 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 : May be harmful if inhaled  
Skin contact: May cause allergic skin reaction  
Eye contact: May cause eye irritation

**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<sub>2</sub>, water spray or regular foam

**Unsuitable extinguishing media** None.

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

**Specific hazards arising from the chemical** Not flammable.

**Hazardous combustion products** Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic gases may be formed upon combustion and represents a hazard to firefighters. Combustion products: See Section: 10.

**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 eyes and skin Avoid breathing vapors or mists

**For emergency responders** Use personal protection recommended in Section 8.

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**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 eyes, skin and 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 at temperatures between 0 and 50 °C.

**7.3. Specific end use(s)**

**Specific use(s)** Water based cleaning solution 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	-	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024

Issuing Date: 01-Jun-2017

Revision Number: 5

Safety data sheet number: GCX-4E02

56-81-5					
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Glycerol 56-81-5	-	TWA: 10 mg/m <sup>3</sup> Ceiling: 15 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Glycerol 56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup> Peak: 400 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
1,2-benzisothiazol-3(2H)- one 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Glycerol 56-81-5	TWA: 10 mg/m <sup>3</sup>	-	TWA: 11 mg/m <sup>3</sup>	TWA: 200 mg/m <sup>3</sup> STEL: 400 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Chemical name	Sweden		Switzerland		United Kingdom
Glycerol 56-81-5	-		TWA: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>

**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.

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
 Issuing Date: 01-Jun-2017  
 Revision Number: 5  
 Safety data sheet number: GCX-4E02

**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  
**Appearance** clear  
**Color** colorless  
**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 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	8 - 9	
pH (as aqueous solution)	No information available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	< 2 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	1.1	@20 °C (H <sub>2</sub> 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

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**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**

Possibility of hazardous reactions No information available.

**10.4. Conditions to avoid**

Conditions to avoid Keep at a temperature not exceeding 80 °C. Do not freeze.

**10.5. Incompatible materials**

Incompatible materials Strong acids, Strong bases

**10.6. Hazardous decomposition products**

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

**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 No information available

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms No information available.

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**Acute toxicity**

**Numerical measures of toxicity**

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

ATEmix (oral) 42,000.00 mg/kg  
ATEmix (dermal) 33,333.30 mg/kg

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg ( Rat )	-	-
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** Not classified (OECD 431 method)  
pH: 8 - 9

**Serious eye damage/eye irritation** Not classified. (OECD 405 method).  
. pH.: 8 - 9.

**Respiratory or skin sensitization** It is not a skin sensitizer (OECD 429 method)

**Germ cell mutagenicity** Not classified  
Based on available data, the classification criteria are not met

**Carcinogenicity** Not classified  
**Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA**

**Reproductive toxicity** Not classified  
Based on available data, the classification criteria are not met

**STOT - single exposure** Not classified  
Based on available data, the classification criteria are not met

**STOT - repeated exposure** Not classified

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

Based on available data, the classification criteria are not met

**Aspiration hazard** Not classified.

**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** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-

**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
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
1,2-benzisothiazol-3(2H)-one	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**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	No information available

**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	

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

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
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
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 algaecides 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-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024  
Issuing Date: 01-Jun-2017  
Revision Number: 5  
Safety data sheet number: GCX-4E02

**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 chemical safety assessment has been carried out

**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
- 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		

Product Name: GCX-4E, GCX-4E02, GCX-4E05

Revision date: 24-May-2024

Issuing Date: 01-Jun-2017

Revision Number: 5

Safety data sheet number: GCX-4E02

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
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)  
 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** 01-Jun-2017

**Revision date** 24-May-2024

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

Product Name: GCX-4E, GCX-4E02, GCX-4E05

**Revision date:** 24-May-2024

**Issuing Date:** 01-Jun-2017

Revision Number: 5

Safety data sheet number: GCX-4E02

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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**