

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

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Revision Number: 8

Safety data sheet number: GC-30P20A

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

**1.1. Product identifier**

**Safety data sheet number** GC-30P20A

**Product Name** GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U, GC-30P5KA,  
GC-30P5KA-U

**Other means of identification**

**Pure substance/mixture** Mixture

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

**Recommended use** Pretreatment agent for water-based ink jet ink

**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

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

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Safety data sheet number: GC-30P20A

## 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.

25 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

32.5 % 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 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Water	7732-18-5	231-791-2	50-70	No data	-	-	-	Not

				available				applicable
Calcium nitrate tetrahydrate	13477-34-4	Anhydrous form: 233-332-1	20-30	No data available	-	-	-	Not applicable
Diethylene glycol	111-46-6	203-872-2 (603-140-00-6)	5-10	Acute Tox. 4 (H302)	-	-	-	Not applicable
Calcium chloride	10043-52-4	233-140-8 (017-013-00-2)	5-10	Eye Irrit. 2 (H319)	-	-	-	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
Calcium nitrate tetrahydrate 13477-34-4	3900	No data available	No data available	No data available	No data available
Diethylene glycol 111-46-6	12565	11890	4.6	No data available	No data available
Calcium chloride 10043-52-4	1000	5000	No data available	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)

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Safety data sheet number: GC-30P20A

## **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>	Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Eye contact</b>	Get medical attention. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.
<b>Skin contact:</b>	Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water.
<b>Ingestion</b>	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.
<b>Self-protection of the first aider</b>	No information available.

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

<b>Symptoms</b>	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 : Mild Irritant Can burn mouth, throat, and stomach
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### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam
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<b>Unsuitable extinguishing media</b>	None.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Water based solvent Not flammable Non-combustible
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### **5.3. Advice for firefighters**

<b>Special protective equipment for</b>	Wear self contained breathing apparatus for fire fighting if necessary.
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Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Safety data sheet number: GC-30P20A

fire-fighters

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**      Wear protective gloves/clothing and eye/face protection

**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. In case of insufficient ventilation, wear suitable respiratory equipment.

**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 in a dry and well-ventilated place.

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

**Specific use(s)**      Pretreatment agent for water-based ink jet ink.

**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
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> STEL 40 ppm STEL 176 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 101 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Diethylene glycol 111-46-6	-	-	TWA: 2.5 ppm TWA: 11 mg/m <sup>3</sup> STEL: 5 ppm STEL: 22 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 45 mg/m <sup>3</sup> STEL: 20 ppm STEL: 90 mg/m <sup>3</sup> A*	-
Calcium chloride 10043-52-4	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 4 mg/m <sup>3</sup>	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> Peak: 40 ppm Peak: 176 mg/m <sup>3</sup>	-	-
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 <sup>3</sup> STEL: 69 ppm STEL: 300 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup>	O* TWA: 10 ppm TWA: 45 mg/m <sup>3</sup> STEL: 20 ppm STEL: 90 mg/m <sup>3</sup>
Calcium chloride 10043-52-4	-	-	-	TWA: 2 mg/m <sup>3</sup>	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Diethylene glycol 111-46-6	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Diethylene glycol 111-46-6	-	TWA: 115 ppm TWA: 500 mg/m <sup>3</sup> STEL: 184 ppm STEL: 800 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> Ceiling: 90 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> STEL: 40 ppm STEL: 176 mg/m <sup>3</sup>	-
Chemical name	Sweden		Switzerland		United Kingdom
Diethylene glycol	NGV: 10 ppm		TWA: 10 ppm		TWA: 23 ppm

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Safety data sheet number: GC-30P20A

111-46-6	NGV: 45 mg/m <sup>3</sup> Vägledande KGV: 20 ppm Vägledande KGV: 90 mg/m <sup>3</sup> H*	TWA: 44 mg/m <sup>3</sup> STEL: 40 ppm STEL: 176 mg/m <sup>3</sup>	TWA: 101 mg/m <sup>3</sup> STEL: 69 ppm STEL: 303 mg/m <sup>3</sup>
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**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.

## **SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	Liquid
<b>Color</b>	white
<b>Odor</b>	Slight
<b>Odor threshold</b>	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	None known
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	4 - 6	
pH (as aqueous solution)	No information available	
Kinematic viscosity	No data available	None known
Dynamic viscosity	No information available	
Water solubility	Miscible in water	
Solubility(ies)	No information available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.1 - 1.4	(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
<b>Oxidizing properties</b>	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**



Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Safety data sheet number: GC-30P20A

**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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</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.

**Acute toxicity**

**Numerical measures of toxicity**

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

**ATEmix (dermal)** 35,198.30 mg/kg

**ATEmix (inhalation-dust/mist)** 41.40 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg ( Rat )	-	-

Calcium nitrate tetrahydrate	= 3900 mg/kg ( Rat )	-	-
Calcium chloride	= 1000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Diethylene glycol	= 12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	> 4600 mg/m <sup>3</sup> ( Rat ) 4 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**

Calcium nitrate: IARC (IARC Vol. 94 (2010)) has stated that there is inadequate evidence to suggest that nitrates in food and drinking water are carcinogenic to humans. It also classified the carcinogenicity as 'Group 2A' under conditions where nitrates or nitrites can be nitrosated in vivo after oral ingestion

**Other** 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
Diethylene glycol	-	LC50: =75200mg/L (96h, Pimephales promelas)	EC50 = 29228 mg/L 15 min	EC50: =84000mg/L (48h, Daphnia magna)
Calcium chloride	-	LC50: =10650mg/L (96h, Lepomis macrochirus)	-	LC50: 2280000 - 3948000µg/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
Diethylene glycol	-1.98
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
Calcium nitrate tetrahydrate	The substance is not PBT / vPvB
Diethylene glycol	The substance is not PBT / vPvB
Calcium chloride	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: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Safety data sheet number: GC-30P20A

## 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: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Safety data sheet number: GC-30P20A

## 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
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.	-
Calcium chloride - 10043-52-4	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 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: Slimecides Product-type 13: Working or cutting fluid preservatives

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

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Safety data sheet number: GC-30P20A

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	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**

**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
- H319 - Causes serious eye irritation
- 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**

Revision date: 24-May-2024

Issuing Date: 26-Feb-2015

Revision Number: 8

Product Name: GC-30P, GC-30P20A, GC-30P20A-U, GC-30P2H, GC-30P2H-U,  
GC-30P5KA, GC-30P5KA-U

Safety data sheet number: GC-30P20A

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

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

**Disclaimer**

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**End of Safety Data Sheet**