

Product Name: BTD60BK,BTD61BK,BTD100BK,BTD180BK Ink

**Revision date:** 07-Jul-2025  
**Issuing Date:** 06-Mar-2017  
Revision Number: 12  
Safety data sheet number: BHK168

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

**1.1. Product identifier**

**Safety data sheet number** BHK168  
**Product Name** BTD60BK,BTD61BK,BTD100BK,BTD180BK 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 International (Nederland) B.V.  
Zanderij 25, 1185 ZM Amstelveen, The Netherlands

Brother International Europe Ltd.  
1 Tame Street, Audenshaw, Manchester M34 5JE, UK  
Telephone (for information): +44-161-330-6531  
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

**SECTION 2: Hazards identification**

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**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 Aqueous Dye; 1,2-benzisothiazol-3(2H)-one May produce an allergic reaction.

**Unknown acute toxicity**

- 7 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 33 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 33 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 10 % 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	60-70	No data available	-	-	-	Not applicable
Glycerol	56-81-5	200-289-5	15-25	No data available	-	-	-	Not applicable
Aqueous Dye	**	916-899-6	5-9	Skin Sens. 1B (H317)	-	-	-	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6 (603-183-00-	1-5	Eye Dam. 1 (H318)	Eye Dam. 1 :: C>=30%	-	-	01-21194751 07-38-XXXX

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		0)			Eye Irrit. 2 :: 20%<=C<30 %			
2,2'-(ethylenedioxy) diethanol	112-27-6	203-953-2	1-5	No data available	-	-	-	Not applicable
1,2,3-benzotriazole	95-14-7	202-394-1 (613-350-00-X)	<0.3	Aquatic Chronic 2 (H411)	-	-	-	Not applicable
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9 (613-088-00-6)	<0.05	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

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

**Acute Toxicity Estimate**

If LD<sub>50</sub>/LC<sub>50</sub> 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
Triethylene glycol, monobutyl ether 143-22-6	5300	3540	No data available	No data available	No data available
2,2'-(ethylenedioxy)diethanol 112-27-6	17000	22600	5.2	No data available	No data available
1,2,3-benzotriazole 95-14-7	560	10000	1.4325	No data available	No data available
1,2-benzisothiazol-3(2H)-one 2634-33-5	450	2000	0.21	No data available	No data available

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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**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. Get immediate medical advice/attention.
<b>Eye contact</b>	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
<b>Skin contact:</b>	Wash with soap and water. If skin irritation persists, call a physician.
<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>	Inhalation ( Vapor / Mist ) : No specific effects and/or symptoms have been reported or known Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
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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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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Nitrogen oxides (NOx) Oxides of sulfur
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### **5.3. Advice for firefighters**

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**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 entry into waterways, sewers, basements or confined areas

### **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 out of the reach of children. Keep cool. Protect from sunlight.

### **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 <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
2,2'-(ethylenedioxy)diethanol 112-27-6	-	-	-	TWA: 15.0 mg/m <sup>3</sup>	-
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>	-
2,2'-(ethylenedioxy)diethanol 112-27-6	-	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> Peak: 2000 mg/m <sup>3</sup>	-	-
1,2,3-benzotriazole 95-14-7	-	-	*	-	-
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
1,2,3-benzotriazole 95-14-7	-	-	-	TWA: 5 mg/m <sup>3</sup>	-
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: 10 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>
2,2'-(ethylenedioxy)diethanol 112-27-6	-	TWA: 114 ppm TWA: 700 mg/m <sup>3</sup> STEL: 163 ppm STEL: 1000 mg/m <sup>3</sup>	-	TWA: 1000 mg/m <sup>3</sup> STEL: 2000 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>
2,2'-(ethylenedioxy)diethanol 112-27-6	-		TWA: 1000 mg/m <sup>3</sup> STEL: 2000 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.

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**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**

<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient under normal use.
<b>Personal protective equipment</b>	Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:
<b>Eye/face protection</b>	Safety goggles
<b>Hand protection</b>	Protective gloves
<b>Skin and body protection</b>	Apron, Rubber boots
<b>Respiratory protection</b>	In case of large spillages: Wear suitable respiratory protective equipment.
<b>Thermal hazards</b>	No information available.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	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>	black
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	< -5 °C	
<b>Initial boiling point and boiling range</b>	> 100 °C	
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive</b>	No data available	

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<b>limits</b>		
<b>Flash point</b>	> 93.3 °C	Tag Closed Cup, Cleveland Open Cup
<b>Autoignition temperature</b>	> 400 °C	
<b>Decomposition temperature</b>	No data available	None known
<b>pH</b>	7 - 9	No information available
<b>pH (as aqueous solution)</b>	No information available	No information available
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	1 - 5 mPa·s	
<b>Water solubility</b>	Soluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Relative density</b>	1.0 - 1.1	(H <sub>2</sub> O=1)
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No data available	
<b>Particle Size Distribution</b>	No data available	

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes**

<b>Explosives</b>	
Explosive properties	No information available
<b>Oxidizing properties</b>	No information available

**9.2.2. Other safety characteristics**  
 No information available None known

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity** None.

**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** None under normal processing.

**10.4. Conditions to avoid**



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**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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), 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** Acute LD<sub>50</sub> > 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**

**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
2,2'-(ethylenedioxy)diethanol	= 17 g/kg ( Rat )	> 20 mL/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Triethylene glycol, monobutyl ether	= 5300 mg/kg ( Rat )	= 3540 mg/kg ( Rabbit )	-
1,2,3-benzotriazole	= 560 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	= 1910 mg/m <sup>3</sup> ( Rat ) 3 h
1,2-benzisothiazol-3(2H)-one	= 450 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	0.21 mg/L

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
**Skin corrosion/irritation** Non-irritant (OECD 404 method)

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<b>Serious eye damage/eye irritation</b>	Non-irritant (OECD 405 method)
<b>Respiratory or skin sensitization</b>	Respiratory sensitization : No information available It is not a skin sensitizer (OECD 406 method)
<b>Germ cell mutagenicity</b>	AMES test : Negative (OECD 471 method)
<b>Carcinogenicity</b>	<b>Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA</b>
<b>Reproductive toxicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration hazard</b>	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** 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)	-	-
Triethylene glycol, monobutyl ether	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: =2400mg/L (96h, Pimephales promelas)	-	EC50: >500mg/L (48h, Daphnia magna)

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2,2'-(ethylenedioxy)diethanol	-	LC50: 56200 - 63700mg/L (96h, Pimephales promelas) LC50: =10000mg/L (96h, Lepomis macrochirus) LC50: =61000mg/L (96h, Lepomis macrochirus)	-	EC50: =42426mg/L (48h, Daphnia magna)
1,2,3-benzotriazole	EC50: =15.4mg/L (96h, freshwater algae)	LC50: =39mg/L (96h, Oncorhynchus mykiss)	-	EC50: =141.6mg/L (48h, water flea)

**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
Triethylene glycol, monobutyl ether	0.51
2,2'-(ethylenedioxy)diethanol	-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
Glycerol	The substance is not PBT / vPvB
Triethylene glycol, monobutyl ether	The substance is not PBT / vPvB
2,2'-(ethylenedioxy)diethanol	The substance is not PBT / vPvB
1,2,3-benzotriazole	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**

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**Waste from residues/unused products** Dispose 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

**SECTION 15: Regulatory information**

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

**National Regulations**

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**France**

**Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Triethylene glycol, monobutyl ether - 143-22-6	RG 84
2,2'-(ethylenedioxy)diethanol - 112-27-6	RG 84
1,2-benzisothiazol-3(2H)-one - 2634-33-5	RG 65

**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
Triethylene glycol, monobutyl ether - 143-22-6	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 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: Slicicides Product-type 13: Working or cutting fluid preservatives

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies

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**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**

**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)
Ceiling	Ceiling Limit Value	*	Skin designation
+	Sensitizers	**	Trade secret

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	On basis of test data
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method

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Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	On basis of test data
Serious eye damage/eye irritation	On basis of test data
Respiratory sensitization	Calculation method
Skin sensitization	On basis of test data
Mutagenicity	On basis of test data
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

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**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**



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