

Revision date: 07-Jul-2025

Issuing Date: 25-Nov-2014

Revision Number: 12

Safety data sheet number: BHY044

Product Name: BT5000Y, BT5001Y, BT5009Y, BT5109Y, BTD100Y, BTD180Y Ink

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Safety data sheet number** BHY044**Product Name** BT5000Y, BT5001Y, BT5009Y, BT5109Y, BTD100Y, BTD180Y 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 statementsThis 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.**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.

34 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

34 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 8 % 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
Polyethylene glycol	25322-68-3	500-038-2	5-9	Eye Irrit. 2 (H319)	-	-	-	Not applicable
Diethylene glycol	111-46-6	203-872-2 (603-140-00-)	1-5	Acute Tox. 4 (H302)	-	-	-	Not applicable

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		6)						
Triethanolamine	102-71-6	203-049-8	<1	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

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
Polyethylene glycol 25322-68-3	22000	20000	No data available	No data available	No data available
Diethylene glycol 111-46-6	12565	11890	4.6	No data available	No data available
Triethanolamine 102-71-6	4190	20000	No data available	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

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

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SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	If symptoms persist, call a physician.
Inhalation	Remove to fresh air. Get immediate medical advice/attention.
Eye contact	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.
Skin contact:	Wash with soap and 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 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

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

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

Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x) Oxides of sulfur
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5.3. Advice for firefighters

Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel** Avoid contact with eyes, skin and 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 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 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 ³	-	TWA: 10 mg/m ³
Polyethylene glycol 25322-68-3	-	TWA: 1000 mg/m ³ STEL 4000 mg/m ³	-	-	-
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³ STEL 40 ppm STEL 176 mg/m ³	-	TWA: 10 mg/m ³	TWA: 23 ppm TWA: 101 mg/m ³
Triethanolamine 102-71-6	-	TWA: 0.8 ppm TWA: 5 mg/m ³ STEL 1.6 ppm STEL 10 mg/m ³ S+	TWA: 5 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
Polyethylene glycol 25322-68-3	-	-	TWA: 1000 mg/m ³ STEL: 2000 mg/m ³ average molecular weight of 200-600	-	-
Diethylene glycol 111-46-6	-	-	TWA: 2.5 ppm TWA: 11 mg/m ³ STEL: 5 ppm STEL: 22 mg/m ³	TWA: 10 ppm TWA: 45 mg/m ³ STEL: 20 ppm STEL: 90 mg/m ³ A*	-
Triethanolamine 102-71-6	-	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³ D*	TWA: 0.5 ppm TWA: 3.1 mg/m ³ STEL: 1 ppm STEL: 6.2 mg/m ³	S+ TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 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	-
Polyethylene glycol 25322-68-3	-	TWA: 200 mg/m ³	TWA: 250 mg/m ³ Peak: 500 mg/m ³	-	-
Diethylene glycol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Peak: 40 ppm Peak: 176 mg/m ³	-	-
Triethanolamine 102-71-6	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³ Peak: 1 mg/m ³	-	-
1,2,3-benzotriazole 95-14-7	-	-	*	-	-
1,2-benzisothiazol-3(2H)- one	-	-	skin sensitizer	-	-

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2634-33-5					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Diethylene glycol 111-46-6	TWA: 23 ppm TWA: 100 mg/m ³ STEL: 69 ppm STEL: 300 mg/m ³	-	-	TWA: 10 mg/m ³	O* TWA: 10 ppm TWA: 45 mg/m ³ STEL: 20 ppm STEL: 90 mg/m ³
Triethanolamine 102-71-6	TWA: 5 mg/m ³ STEL: 15 mg/m ³	-	TWA: 5 mg/m ³	-	J+ TWA: 5 mg/m ³ STEL: 10 mg/m ³
1,2,3-benzotriazole 95-14-7	-	-	-	TWA: 5 mg/m ³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	TWA: 10 mg/m ³
Diethylene glycol 111-46-6	-	-	-	-	TWA: 10 mg/m ³
Triethanolamine 102-71-6	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-
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
Polyethylene glycol 25322-68-3	-	-	TWA: 1000 mg/m ³	TWA: 1000 mg/m ³ STEL: 8000 mg/m ³	-
Diethylene glycol 111-46-6	-	TWA: 115 ppm TWA: 500 mg/m ³ STEL: 184 ppm STEL: 800 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Ceiling: 90 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³	-
Triethanolamine 102-71-6	TWA: 5 mg/m ³	-	-	-	TWA: 5 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	-	
Polyethylene glycol 25322-68-3	-	TWA: 500 mg/m ³	-	-	
Diethylene glycol 111-46-6	NGV: 10 ppm NGV: 45 mg/m ³ Vägledande KGV: 20 ppm Vägledande KGV: 90 mg/m ³ H*	TWA: 10 ppm TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³	TWA: 23 ppm TWA: 101 mg/m ³ STEL: 69 ppm STEL: 303 mg/m ³	-	
Triethanolamine 102-71-6	NGV: 5 mg/m ³ NGV: 0.8 ppm Vägledande KGV: 10 mg/m ³ Vägledande KGV: 1.6 ppm H*	TWA: 5 mg/m ³ STEL: 5 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.

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

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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** Apron, Rubber boots**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**

Physical state	Liquid
Color	dark yellow
Odor	Slight
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	< -5 °C	
Initial boiling point and boiling range	> 100 °C	
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	Tag Closed Cup, Cleveland Open Cup
Autoignition temperature	> 400 °C	

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Decomposition temperature	No data available	None known
pH	7 - 9	No information available
pH (as aqueous solution)	No information available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	2 - 5 mPa·s	
Water solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.0 - 1.1	(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 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

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

10.5. Incompatible materials

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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	Acute LD ₅₀ > 2500 mg/kg (OECD 423 method)

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)** 34,055.10 mg/kg**ATEmix (inhalation-dust/mist)** 115.00 mg/l**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
Polyethylene glycol	= 22 g/kg (Rat)	> 20 g/kg (Rabbit)	-
Diethylene glycol	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	> 4600 mg/m ³ (Rat) 4 h
Triethanolamine	= 4190 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
1,2,3-benzotriazole	= 560 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 1910 mg/m ³ (Rat) 3 h
1,2-benzisothiazol-3(2H)-one	= 450 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.21 mg/L

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Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation** Non-irritant (OECD 404 method)**Serious eye damage/eye irritation** Minimal irritant to the eye (OECD 405 method)**Respiratory or skin sensitization** Respiratory sensitization : No information available
It is not a skin sensitizer (OECD 429 method)**Germ cell mutagenicity** AMES test : Negative (OECD 471 method)**Carcinogenicity** 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** 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,	-	-

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Diethylene glycol	-	Onco <h>ryncus mykiss)</h>	EC50 = 29228 mg/L 15 min	EC50: =84000mg/L (48h, Daphnia magna)
Triethanolamine	EC50: =216mg/L (72h, Desmodesmus subspicatus) EC50: =169mg/L (96h, Desmodesmus subspicatus)	LC50: 10600 - 13000mg/L (96h, Pimephales promelas) LC50: >1000mg/L (96h, Pimephales promelas) LC50: 450 - 1000mg/L (96h, Lepomis macrochirus)	-	-
1,2,3-benzotriazole	EC50: =15.4mg/L (96h, freshwater algae)	LC50: =39mg/L (96h, Onco <h>ryncus mykiss)</h>	-	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
Diethylene glycol	-1.98
Triethanolamine	-2.53
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
Polyethylene glycol	The substance is not PBT / vPvB
Diethylene glycol	The substance is not PBT / vPvB
Triethanolamine	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.

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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

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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
Triethanolamine - 102-71-6	RG 49
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
Diethylene glycol - 111-46-6	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 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

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Issuing Date: 25-Nov-2014

Revision Number: 12

Safety data sheet number: BHY044

International Inventories

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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****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

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	Maximum limit value	*	Skin designation
+	Sensitizers		

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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
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	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 25-Nov-2014**Revision date** 07-Jul-2025**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**



SAFETY DATA SHEET

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Disclaimer

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End of Safety Data Sheet