

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Safety data sheet number: BHY344

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

**1.1. Product identifier**

Safety data sheet number BHY344

Product Name LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,LC  
556Y,LC572Y,LC582Y 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 These products are dark yellow ink in a cartridge for Brother Industries, Ltd. inkjet multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Brother.

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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Revision date: -  
Issuing Date: 30-Apr-2025  
Revision Number: 1

Safety data sheet number: BHY344

## 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.

#### **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).
- 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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Revision date: -  
Issuing Date: 30-Apr-2025  
Revision Number: 1

Safety data sheet number: BHY344

Water	7732-18-5	231-791-2	60-80	No data available	-	-	-	Not applicable
Glycerol	56-81-5	200-289-5	15-30	No data available	-	-	-	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6 (603-183-00-0)	1-5	Eye Dam. 1 (H318)	Eye Dam. 1 :: C>=30% Eye Irrit. 2 :: 20%<=C<30%	-	-	01-21194751 07-38-XXXX
Triethanolamine	102-71-6	203-049-8	<1	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. 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 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
Triethanolamine 102-71-6	4190	20000	No data available	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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

**Revision date:** -  
**Issuing Date:** 30-Apr-2025  
**Revision Number:** 1

Safety data sheet number: BHY344

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>	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>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact:</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see 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 For large quantities: May cause irritation to the respiratory system. Increased difficulty in breathing. Sneezing. Coughing
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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**

**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**

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Revision date: -  
Issuing Date: 30-Apr-2025  
Revision Number: 1

Safety data sheet number: BHY344

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel** Avoid contact with skin, eyes or clothing

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

**6.2. Environmental precautions**

**Environmental precautions** Prevent 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.

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Safety data sheet number: BHY344

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

**Specific use(s)** Water based ink for inkjet printing machine.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Glycerol 56-81-5	-	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
Triethanolamine 102-71-6	-	TWA: 0.8 ppm TWA: 5 mg/m <sup>3</sup> STEL 1.6 ppm STEL 10 mg/m <sup>3</sup> S+	TWA: 5 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>
Triethanolamine 102-71-6	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup> D*	TWA: 0.5 ppm TWA: 3.1 mg/m <sup>3</sup> STEL: 1 ppm STEL: 6.2 mg/m <sup>3</sup>	S+ TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 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>	-
Triethanolamine 102-71-6	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Peak: 1 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
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	-	J+ TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
Triethanolamine 102-71-6	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain

Product Name:

LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Safety data sheet number: BHY344

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>
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	-	-	-	TWA: 5 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Sweden</b>		<b>Switzerland</b>		<b>United Kingdom</b>
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>
Triethanolamine 102-71-6	NGV: 5 mg/m <sup>3</sup> NGV: 0.8 ppm Vägledande KGV: 10 mg/m <sup>3</sup> Vägledande KGV: 1.6 ppm H*		TWA: 5 mg/m <sup>3</sup> STEL: 5 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** If there is a risk of contact:, Apron, Boots

**Respiratory protection** Use appropriate respiratory protection.

**Thermal hazards** No information available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Avoid release to the environment.

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Revision date: -  
Issuing Date: 30-Apr-2025  
Revision Number: 1

Safety data sheet number: BHY344

## 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	
Decomposition temperature	No data available	None known
pH	7 - 9	
pH (as aqueous solution)	No data available	None known
Kinematic viscosity		None known
Dynamic viscosity	2 - 5 mPa·s	
Water solubility	Soluble 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	1.0 - 1.1	(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	No information available
Oxidizing properties	No information available

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

**Revision date:** -  
**Issuing Date:** 30-Apr-2025  
**Revision Number:** 1

Safety data sheet number: BHY344

**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 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**

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Safety data sheet number: BHY344

**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
Triethylene glycol, monobutyl ether	= 5300 mg/kg ( Rat )	= 3540 mg/kg ( Rabbit )	-
Triethanolamine	= 4190 mg/kg ( Rat )	> 20000 mg/kg ( Rabbit )	-
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)

**Serious eye damage/eye irritation** Non-irritant (OECD 405 method)

**Respiratory or skin sensitization** Respiratory sensitization : No information available  
It is not a skin sensitizer (OECD 442B 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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Safety data sheet number: BHY344

**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)
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)	-	-

**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
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).

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

**Revision date:** -  
**Issuing Date:** 30-Apr-2025  
**Revision Number:** 1

Safety data sheet number: BHY344

Chemical name	PBT and vPvB assessment
Glycerol	The substance is not PBT / vPvB
Triethylene glycol, monobutyl ether	The substance is not PBT / vPvB
Triethanolamine	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**

**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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

Revision date: -  
Issuing Date: 30-Apr-2025  
Revision Number: 1

Safety data sheet number: BHY344

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**

**France**

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

Chemical name	French RG number
Triethylene glycol, monobutyl ether - 143-22-6	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
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

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

**Revision date:** -  
**Issuing Date:** 30-Apr-2025  
**Revision Number:** 1

Safety data sheet number: BHY344

**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

**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 chemical safety assessment has been carried out

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Product Name:  
LC506Y,LC507Y,LC512Y,LC516Y,LC517Y,LC527Y,LC528Y,LC536Y,LC537Y,LC552Y,  
LC556Y,LC572Y,LC582Y ink

**Revision date:** -  
**Issuing Date:** 30-Apr-2025  
**Revision Number:** 1

Safety data sheet number: BHY344

**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
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

Product Name:  
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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** 30-Apr-2025

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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**