

Product Name: LC404Y, LC414Y, LC424Y

Revision Date: -Issuing Date: 08-Jan-2021 Revision Number: 1 Safety data sheet number: BHY253-01

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Name Product Form Safety data sheet number	LC404Y, LC414Y, LC424Y Mixture BHY253-01
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	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 sa	fety data sheet
<u>Manufacturer</u>	Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan Telephone (for information): +81-52-824-2735
<u>Importer</u>	(Europe) Brother International Europe Ltd. 1 Tame Street, Audenshaw, Manchester M34 5JE, UK Brother International (Nederland) B.V. Zanderij 25, 1185 ZM Amstelveen, The Netherlands Telephone (for information): +44-161-330-6531
For further information, please con	tact
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: Hazard(s) 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

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]



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EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

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).

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	EC Index No	Weight-%	Specific concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Water	7732-18-5	231-791-2	-	65-80	-	Not classified	Not applicable
Glycerol	56-81-5	200-289-5	-	5-15	-	Not classified	Not applicable
Triethylene glycol, monobutyl ether	143-22-6	205-592-6	603-183-00-0	1-5	Eye Dam. 1 :: C>=30% Eye Irrit. 2 :: 20%<=C<30 %	(H318)	01-2119475107- 38-XXXX
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	<0.05	Skin Sens. 1 :: C>=0.05%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Not applicable

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

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.



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Eye contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
Skin contact:	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Ingestion	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.
4.2. Most important symptoms and o	effects, both acute and delayed
Symptoms	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
4.3. Indication of any immediate me	dical attention and special treatment needed
Note to physicians	Treat symptomatically.

5.1. Extinguishing media

- Suitable Extinguishing Media Dry chemical, CO₂, water spray or regular foam
- Unsuitable extinguishing media None

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the
chemicalThermal decomposition can lead to release of irritating and toxic gases and vapors Carbon
monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Oxides of sulfur

5.3. Advice for firefighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnelAvoid contact with skin, eyes or clothingFor emergency respondersUse personal protection recommended in Section 8.6.2. Environmental precautionsPrevent substance entering sewers. Washings must be prevented from entering surface



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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, incl	uding any incompatibilities
Storage Conditions	Keep out of the reach of children. Keep cool. Protect from sunlight.
Storage Conditions 7.3. Specific end use(s)	Keep out of the reach of children. Keep cool. Protect from sunlight.

Section 8: Exposure controls and personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Glycerol	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 200 mg/m ³
56-81-5		STEL: 30 mg/m ³		-	
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Glycerol	-	TWA: 10 mg/m ³	-	TWA: 20 mg/m ³	-
56-81-5				-	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol	-	TWA: 50 mg/m ³	TWA: 10 mg/m ³	-	-
56-81-5		STEL: 100 mg/m ³			

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration No information available. **(PNEC)**



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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.
Environmental exposure controls	Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor threshold	Liquid dark yellow Slight No information available	
Property_	<u>Values</u>	Remarks • Method
рН	7 - 9	
Melting point / freezing point	< No data available °C	
Boiling point / boiling range	> 100 °C	
Flash point	> 94 °C	Tag Closed Cup, Cleveland Open Cup,
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known, None known
Flammability Limit in Air	Ne data available	None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	NI I
Vapor pressure	No data available	None known
Vapor density	No data available 1.0 - 1.1	None known
Relative density Water solubility	Soluble in water	(H ₂ O=1)
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	> 400 °C	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	2 - 5 mPas	
Explosive properties	No information available	
Oxidizing properties	No information available	



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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

Section 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from heat. Keep away from water or moist air.

10.5. Incompatible materials

Acids, Bases, Oxidizing agent, Reducing agent

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Oxides of sulfur

Section 11: Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation	No information available
Eye contact	No information available
Skin contact:	No information available
Ingestion	Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)
Skin corrosion/irritation	Non-irritant (OECD 404 method)



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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.
Potential health effects	Eye : May cause slight irritation Skin : Prolonged exposure may cause skin irritation Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation : Not an expected route of exposure

11.2. Information on other hazards

No information available

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

Contains 0 % of components with unknown hazards to the aquatic environment

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)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76



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Triethylene glycol, monobutyl ether	0.51
1,2-Benzisothiazolin-3-one	1.3

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Dispose in accordance with federal, state and local regulations.

Section 14: Transport information

IMDG

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Marine pollutant	Not applicable
14.6	Special Provisions	None
14.7	Transport in bulk according to	oNot applicable
Anne	x II of MARPOL 73/78 and the	
IBC C	ode	
RID		
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None
<u>ADR</u>	<u>-</u>	
14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None



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IATA

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

Section 15: Regulatory information

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

EU-Regulations

* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.

- * Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- * Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

National Regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

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

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H400 Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:			
TWA	TWA (time-weighted average)	STEL	
Ceiling	Ceiling Limit Value	**	

Key literature references and sources for data

No information available

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Revision Note No information available

STEL (Short Term Exposure Limit)

Trade secret



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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).