

Product Name: LC201Y, LC203Y, LC205Y, LC211Y, LC213Y, LC215Y, LC221Y, LC223Y, LC225XLY, LC231Y, LC233Y, LC235XLY, LC261Y, LC263Y, LC605Y, LC625Y, LC635Y, LC645Y, LC663Y, LC665XLY, LC673Y, LC675XLY, LC683Y, LC685XLY, LC691Y, LC693Y, LC695XLY, LC20EY, LC21EY, LC22EY, LC22UY, LC23EY Ink

Revision Date: 11-Jan-2019 Issuing Date: 26-Sep-2013 Revision Number: 6

Safety data sheet number: BHY026

1. IDENTIFICATION

Product identifier

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Other means of identification				
Synonyms	None			
Recommended use of the chemica	and restrictions on use			
Recommended Use	No information available			
Uses advised against	No information available			
Details of the supplier of the safety data sheet				
Manufacturer Address	Brother Industries, Ltd. 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan			
Supplier Address	Telephone (for information): +81-52-824-2735 Brother International Corporation 200 Crossing Boulevard, Bridgewater, NJ 08807, USA Telephone (for information): +1-877-276-8437			
Emergency telephone number				
Emergency Telephone	CHEMTREC +1-800-424-9300			

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable



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Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance

Physical state: Liquid Odor: Slight

Other Information

Unknown acute toxicity

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

5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

25 % 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)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	65-75	*
Glycerol	56-81-5	5-15	*
Yellow Dye	**	1-5	*
Triethylene glycol, monobutyl ether	143-22-6	1-5	*
1,2-Benzisothiazolin-3-one	2634-33-5	<0.05	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

**

Trade secret

4. FIRST AID MEASURES

Description of first aid measures

InhalationRemove to fresh air.Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
Consult a physician.



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Skin contact:	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available	
Indication of any immediate medica	ate medical attention and special treatment needed	
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No information available t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.	



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Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

See section 8 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

The information required is contained in this Material Safety Data Sheet

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	No data available	TWA: 15 mg/m ³ mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m ³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m ³	
		mist, total particulate	
		(vacated) TWA: 5 mg/m ³ mist,	
		respirable fraction	

Appropriate engineering controls

Engineering controls

Good general ventilation should be sufficient under normal use.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles.



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Hand protection	Protective gloves.
Skin and body protection	Long sleeved clothing and long pants.
Respiratory protection	In case of large spillages: Wear suitable respiratory protective equipment.
Environmental exposure controls	Avoid release to the environment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		
Physical state	Liquid	
Color	dark yellow	
Odor	Slight	
Odor threshold	No information available	
Property	Values	
рН	7 - 9	
Melting point / freezing point	< 5 °C	
Boiling point / boiling range	> 100 °C	
Flash point	>= 93.3 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	
Vapor density	No data available	
Relative density	1.0 - 1.1	
Water solubility	Soluble in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	> 400 °C	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	2 - 5 mPas	
Explosive properties	No information available	
Oxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	

No information available

Remarks • Method

Tag Closed Cup Cleveland Open Cup None known None known None known

None known None known $(H_2O=1)$

None known None known

None known None known

No information available.

Liquid Density



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Bulk density

No information available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied
Incompatible materials	Strong oxidizing agents

Hazardous decomposition products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Product Information

Inhalation	No information available	
Eye contact	No information available.	
Skin contact:	No information available.	
Ingestion	Not classified Acute LD ₅₀ > 2000 mg/kg (OECD 420 method)	
Skin corrosion/irritation	Non-irritant (OECD 404 method) pH: 7-9	
Serious eye damage/irritation	Minimal irritant to the eye (OECD 405 method) pH: 7-9	
Respiratory or skin sensitization	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	
Aspiration hazard	Not applicable.	



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	-	51 - 57: 96 h	-	500: 24 h Daphnia magna
56-81-5		Oncorhynchus mykiss		mg/L EC50
		mL/L LC50 static		_
Triethylene glycol,	500: 72 h Desmodesmus	2400: 96 h Pimephales	-	500: 48 h Daphnia magna
monobutyl ether	subspicatus mg/L EC50	promelas mg/L LC50		mg/L EC50
143-22-6		static 2400: 96 h		C C
		Pimephales promelas		
		mg/L LC50 2200 - 4600:		
		96 h Leuciscus idus mg/L		
		LC50 static		

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76
56-81-5	
Triethylene glycol, monobutyl ether	0.51
143-22-6	
1,2-Benzisothiazolin-3-one	1.3
2634-33-5	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.



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14. TRANSPORT INFORMATION

DOT	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
<u>RID</u>	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Exempt
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	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

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.



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SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Glycerol 56-81-5	Х	Х	Х
Triethylene glycol, monobutyl ether 143-22-6	Х	-	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Section 9: Physical and
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	chemical properties - Personal protection X



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Revision Note Not applicable.

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).

End of Safety Data Sheet