This SDS packet was issued with item:

070308023

N/A



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y, LC38Y, LC67Y, LC990Y

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First issue: Dec. 26, 2007 Revised: Apr. 10, 2008 MSDS No.: BHY018

LK3651001

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name LC61Y LC65HY-Y LC980Y LC1100Y Product Code LK3368001 LK3293001 LK3376001 LK3574001 Product Name LC1100HY-Y LC38Y LC67Y LC990Y Product Code LK3539001 LK3663001 LK3671001

General Use Inkjet printing

Product Description Water based ink cartridge for inkjet printing machine.

MSDS No. **BHY018**

Manufacturer BROTHER INDUSTRIES, LTD.

> 5-1, Hamada-cho, Minami-ku, Nagoya 457-0822, JAPAN Telephone Number for Information +81-52-824-3429

Importer BROTHER INTERNATIONAL CORPORATION

in USA 100 Somerset Corporate Boulevard, P.O.Box 6911, Bridgewater,

NJ 08807-0911, USA

Telephone Number for Information +1-800-284-4329

Importer BROTHER INTERNATIONAL CORP. (Canada) LTD.

in Canada 1 rue Hôtel de Ville, Dollard-des-Ormeaux, Québec, H9B 3H6, CANADA

> Telephone Number for Information +1-514-685-0600

BROTHER INTERNATIONAL (AUST.) PTY. LTD. ACN 001 393 835 Importer in Australia

7 Khartoum Road, North Ryde, N.S.W. 2113 08875-6714, AUSTRALIA

Telephone Number for Information +61-2-9887-4344

Importer BROTHER INTERNATIONAL EUROPE LTD.

in Europe Brother house, 1 Tame Street, Guide Bridge, Audenshaw, Manchester

M34 5JE, UK

Telephone Number for Information +44-161-330-6531

Please telephone to the above office during our business hours.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Ink in cartridge is dark yellow liquid with slight odor.

Keep out of reach of children.

Ink poses little or no immediate hazard if spilled.

POTENTIAL HEALTH EFFECTS

Inhalation: Not expected to be a route of exposure under normal use.

Eye: Ink may cause slight irritation.

Skin: Prolonged exposure to ink may cause irritation.

Ingestion: Ink may cause gastrointestinal or other adverse effects.



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y, LC38Y, LC67Y, LC990Y

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MATERIAL SAFETY DATA SHEET

CHRONIC EFFECTS / CARCINOGENICITY

Ingredients of ink have not been classified as carcinogens according to IARC monographs, NTP, and OSHA regulated.

EU HAZARD LABEL

Ink is not classified according to EU-Directive 1999/45/EC.

3	. COMPOSITION	INFORMATION ON	INGREDIENTS

CHEMICAL NAME	CAS# / EC#	% by weight	USA OSHA PEL	ACGIH TLV	EU Symbol / Risk Phrases
Glycerol	56-81-5 / 200-289-5	5 - 10	(as mist) Total dust TWA 15mg/m ³ Respirable fraction TWA 5mg/m ³	(as mist) Total dust TWA 10mg/m ³	Not classified
Triethylene glycol monobutyl ether	143-22-6 / 205-592-6	1-5	Not established	Not established	Xi / R41
Yellow dye	Registered	1-5	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	60 – 80	Not established	Not established	Not established

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air area and get medical attention.

EYE:

Flush immediately with running water for at least 15 minutes and get

medical attention.

SKIN:

Wash with water and soap.

INGESTION:

Dilute with water and get medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Auto-ignition temperature:

426°C

Flammability: Flash point: LEL: Not available UEL: Not available

Does not flash (>93.3°C)

(Tag closed cup & Cleveland opened cup)

EXTINGUISHING MEDIA

Suitable:

Water, CO2, Foam, Dry chemical.

Not to be used:

None

FIRE FIGHTING INSTRUCTIONS

Special exposure hazards:

Refer to section 10.

Special protect equipment for fire-fighters:

Use self-contained breathing apparatus.



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y. LC38Y, LC67Y, LC990Y

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MATERIAL SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION: In case of ink vapor formation use respirator.

Take care to minimize ink that reaches to a sewer. ENVIRONMENTAL PRECAUTION:

METHODES FOR CLEANING UP: Wipe up ink with absorbent towel. Wash with

water to remove remaining traces of ink.

7. HANDLING AND STORAGE

HANDLING: Avoid skin contact with ink. Prevent eve contact with ink.

Keep out of reach of children. Store in a cool, dark, and dry place. STORAGE:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: Refer to section 2.

EXPOSURE CONTROLS

Engineering controls: Ventilation is not required under normal use.

Personal protection

Respiratory protection: Not required under normal use. Hand protection: Not required under normal use. Eye protection: Not required under normal use. Skin protection: Not required under normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark yellow liquid

Auto-ignition temperature : 426°C Boiling point: 103°C Density: 1.05 g/ml

UEL: Not available Flammability: LEL: Not available

Flash point: Does not flash (>93.3°C)

(Tag closed cup & Cleveland opened cup)

Freezing point: -7°C

Slight odor Not available Partition coefficient (n-octanol/water):

7-9 pH: Soluble Solubility in water: Vapor density (Air=1): Not available Not available Vapor pressure:

Viscosity: 2 - 5 mPa·s



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y, LC38Y, LC67Y, LC990Y

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MATERIAL SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

None

MATERIALS TO AVOID:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, Carbon dioxide

HAZARDOUS POLYMERIZATION:

Does not occur

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD₅₀ of ink is greater than 2000mg/kg.

Eye irritation:

Ink is classified as a MINIMAL IRRITANT.

Skin irritation:

Ink is classified as a NON IRRITANT.

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:

Not available

BIOACCUMULATIVE POTENTIAL:

Not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT):

Not applicable

MARITIME TRANSPORT IMDG:

Not applicable

AIR TRANSPORT ICAO/IATA:

Not applicable

15. REGULATORY INFORMATION

US REGULATIONS

TSCA STATUS:

All components in ink are listed on TSCA inventory.

EUROPEAN REGULATIONS

EU NOTIFICATION:

All components in ink are listed in EINECS, ELINCS or NLP

Inventory.

EU HAZARD LABEL:

Ink is not classified according to EU-Directive 1999/45/EC.

16. OTHER INFORMATION

The information relates only to this specific ink cartridge. It may not be valid for this ink cartridge, 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).



Product name: LC61Y, LC65HY-Y, LC980Y, LC1100Y, LC1100HY-Y, LC38Y, LC67Y, LC990Y

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MATERIAL SAFETY DATA SHEET

EU Hazard Symbols:

Xi : Irritant

EU Risk (R) Phrase definitions: R41: Risk of serious damage to eyes.

Key

ACGIH TLV TLV (Threshold Limit Value) under American Conference of Governmental

Industrial Hygienists

DOT Department Of Transportation (USA)

EINECS European Inventory of Existing Commercial Chemical Substances (EU)

IARC International Agency for Research on Cancer

IATA International Air Transport Association **IMDG** International Maritime Dangerous Goods

NLP No-Longer Polymers List (EU) NTP National Toxicology Program (USA)

OSHA Occupational Safety and Health Administration (USA)

OSHA HCS Hazard Communication Standard issued by Occupational Safety and Health

Administration (USA)

OSHA PEL PEL (Permissible Exposure Limit) under Occupational Safety and Health

Administration (USA)

Toxic Substances Control Act (USA) TSCA



Issuing Date: 26-December-2007 Revision Date: 22-June -2017 Version: 11.1 SDS No: BHY018-01-EUUSOTHER

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

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

1.1 Product identifier

Product name (code)

LC11Y (LK3639001, LK4692001), LC16Y (LK3542001, LK4712001), LC38Y (LK3663001, LK4198001), LC39Y (LK5407001), LC60Y (LK5731001),

LC61Y (LK3368001, LK4299001), LC67Y (LK3671001, LK4224001),

LC975Y (LK5672001), LC980Y (LK3376001, LK4050001), LC985Y (LK4623001, LK5403001), LC990Y (LK4463001),

LC1100Y (LK3574001, LK3987001), LC65HYY (LK3293001, LK4332001) LC67HYY (LK3540001, LK4279001), LC990HYY (LK3541001, LK4483001),

LC1100HYY (LK3539001, LK4023001)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Use(s) 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.

1.3 Details of the supplier of the safety data sheet

Brother Industries, Ltd. Manufacturer

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer (USA) **Brother International Corporation**

200 Crossing Boulevard, Bridgewater, NJ 08807, USA

Telephone (for information): +1-877-276-8437

Importer (Canada) Brother International Corporation (Canada) Ltd.

1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada

Telephone (for information): +1-514-685-0600

Importer (Europe) Brother International Europe Ltd.

Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK

Telephone (for information): +44-161-330-6531

Importer (Australia) Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia

Telephone (for information): +61-2-9887-4344

E-mail Address sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone CHEMTREC

(24 hours) +1-703-527-3887 (International) +1-800-424-9300 (North America)

+61-290372994 (Australia)

For France only:

Antipoison Center telephone number: ORFILA +33-1-45-425-959



Issuing Date: 26-December-2007 Revision Date: 22-June -2017 Version: 11.1 SDS No: BHY018-01-EUUSOTHER

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not classified as hazardous

Classification according to OSHA GHS

Not classified as hazardous

Australia Classification

Not classified as hazardous according to the criteria of NOHSC

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms

None

Signal Word

None

Hazard Statements

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements

None

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).



Issuing Date: 26-December-2007 Revision Date: 22-June -2017 Version: 11.1 SDS No: BHY018-01-EUUSOTHER

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture: Water based inkjet ink (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Glycerol	56-81-5	200-289-5	5-15	Not classified	Not classified
Triethylene glycol monobutyl ether	143-22-6	205-592-6	1-5	Xi; R41	Eye Dam. 1 (H318)
Yellow Dye	*	*	1-5	Not classified	Not classified
Water	7732-18-5	231-791-2	65-75	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22	Acute Tox. 4 (Oral), H302
				Xi; R41	Skin Irrit. 2, H315
				Xi; R38	Eye Dam. 1, H318
				R43	Skin Sens. 1, H317
				N; R50	Aquatic Acute 1, H400

For the full text of R-phrases and H-Statements see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice If symptoms persist, obtain medical attention.

Inhalation Obtain medical attention. In case of accident by inhalation remove casualty to fresh air and keep at

Skin contact Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and

water.

Eye contact Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of

water for at least 15 minutes.

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 effects, both acute and delayed

Skin contact: Repeated and/or prolonged skin contact may cause irritation.

Eye contact: May cause eye irritation.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Unlikely route of exposure.

Inhalation: Unlikely route of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

^{*} Registered



Issuing Date: 26-December-2007 Revision Date: 22-June -2017 Version: 11.1 SDS No: BHY018-01-EUUSOTHER

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water spray, foam.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the

substance or mixture

Thermal decomposition of organic components may result in occurrence of oxides of carbon. Toxic gases may be formed upon combustion and represents a hazard to firefighters. Combustion

products: See Section: 10.

5.3 Advice for firefighters Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure

self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic

combustion gases from any source.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with eyes.

6.2 Environmental precautions

Prevent substance entering sewers. Washings must be prevented from entering surface water

drains.

6.3 Methods and materials for containment and cleaning up

Wipe up with absorbent towel Wash with water to remove remaining traces of ink

6.4 Reference to other sections

For personal protection: See section 8. For disposal considerations: See section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep out of the reach of children. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from oxidizing agents.

7.3 Specific end use(s) These products are dark yellow ink in a cartridge for Brother Industries, Ltd. inkjet multifunction

devices and fax receivers. This cartridge should be used as supplied by Brother and for use in the

products stated.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical Name	Glycerol
	56-81-5
ACGIH TLV	TWA: 10 mg/m ³ mist
OSHA PEL	TWA: 15 mg/m ³ mist, total particulate
	TWA: 5 mg/m³ mist, respirable fraction
European Union	-
The United Kingdom	STEL: 30 mg/m ³
	TWA: 10 mg/m ³



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LC67HYY, LC990HYY, LC1100HYY Ink

France	TWA: 10 mg/m ³
Spain	TWA: 10 mg/m ³
Germany	TWA: 50 mg/m ³
	Ceiling / Peak: 100 mg/m ³
Portugal	TWA: 10 mg/m ³
Finland	TWA: 20 mg/m ³
Switzerland	STEL: 100 mg/m ³
	TWA: 50 mg/m ³
Poland	TWA: 10 mg/m ³
Ireland	TWA: 10 mg/m ³

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 Protection Safety goggles. Hand Protection Protective gloves.

Long sleeved clothing and long pants. Skin and body protection

Respiratory protection Large spillages: Wear suitable respiratory protective equipment.

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 Liquid Color Dark yellow Odor Slight

Odor Threshold No information available

7 - 9 -/<-5 °C Melting point/freezing point > 100 °C Initial boiling point and boiling range

Not less than 93.3°C Flash Point (Tag closed cup; Cleveland open cup)

Evaporation rate No information available

Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive No information available

limits

No information available Vapor pressure Vapor density No information available Relative density 1.0 - 1.1 (H₂O=1) Solubility(ies) Soluble (water) Partition coefficient: n-octanol/water No information available Auto-ignition temperature >400 °C

Decomposition temperature No information available Viscosity 1 - 5 mPa-s

Explosive properties Not explosive Oxidizing properties No information available

9.2 Other information

No information available.



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Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 10: Stability and reactivity

No information available. 10.1 Reactivity

10.2 Chemical stability Stable.

10.3 Possibility of hazardous

reactions

No information available.

10.4 Conditions to avoid No information available.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition

products

Contains: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation No information available. No information available. Eye contact No information available. Skin contact

 $LD_{50} > 2000 \text{ mg/kg (Method OECD#420)}$ Ingestion

Skin corrosion/irritation Non-irritant. (Method: OECD#404)

Serious eye damage/irritation Minimal irritant to the eye. (Method: OECD#405)

Respiratory or skin sensitisation It is not a skin sensitizer. (Method: OECD#429)

Mutagenicity Negative. (Method: OECD#471)

Carcinogenicity Ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA



Issuing Date: 26-December-2007 Revision Date: 22-June -2017 Version: 11.1 SDS No: BHY018-01-EUUSOTHER

Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY, LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 12: Ecological information

12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		LC ₅₀ : 51 - 57 mL/L 96 h	EC ₅₀ : >500 mg/L 24 h
56-81-5		static (Oncorhynchus mykiss)	(Daphnia magna)
Triethylene glycol monobutyl ether	EC ₅₀ : >500 mg/L 72 h	LC ₅₀ : 2200 - 4600 mg/L 96 h	EC ₅₀ : >500 mg/L 48 h
143-22-6	(Desmodesmus subspicatus)	static (Leuciscus idus)	(Daphnia magna)
		LC ₅₀ : 2400 mg/L 96 h	
		static (Pimephales promelas)	
		LC ₅₀ : 2400 mg/L 96 h	
		(Pimephales promelas)	

12.2 Persistance and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow
Glycerol	-1.76
Triethylene glycol monobutyl ether	0.51

12.4 Mobility in soil No information available.

12.5 Results of 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).

12.6 Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Dispose of in accordance with Federal, State, and local regulations.

SECTION 14: Transport information

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number None

14.2 UN proper shipping name None

14.3 Transport hazard class(es) None

14.4 Packing Group None

14.5 Environmental hazards None

14.6 Special precautions for user None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Not applicable

Code

Not regulated under DOT, IMDG, IATA.



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Product name: LC11Y, LC16Y, LC38Y, LC39Y, LC60Y, LC61Y, LC67Y, LC975Y, LC980Y, LC985Y, LC990Y, LC1100Y, LC65HYY,

LC67HYY, LC990HYY, LC1100HYY Ink

SECTION 15: Regulatory information

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

EU: Not classified as dangerous for supply/use. (1999/45/EC)

USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety

data reporting rules. Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R41 - Risk of serious damage to eyes

R38 - Irritating to skin

R43 - May cause sensitization by skin contact

R50 - Very toxic to aquatic organisms

Full text of H-Statements referred to

under sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

Additional information

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).

Revision Note SECTION 1, 2.

U.S. 29CFR Part 1910 References:

ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices

IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization

EU Directive 91/322/EEC and 2000/39/EC

NTP 11th Report on Carcinogens

Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists

DOT: Department Of Transportation (US)

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

NOHSC: National Occupational Health and Safety Commission (Australia)

NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (US)

PEL: Permiss ble Exposure Limit STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US)

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Material Information System (Canada)