SAFETY DATA SHEETS

This SDS packet was issued with item: 070308007

N/A



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at your side Product name: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

MATERIAL SAFETY DATA SHEET

| Product Name Product Code | LC61C LK33366001 | LC65HY-C LK3291001 | LC980C LK3374001 | LC1100C LK357200 |
|--|---|-----------------------|---------------------|---------------------|
| Product Name Product Code | LC1100HY-C LK3523001 | LC38C LK3661001 | LC67C LK3669001 | LC990C LK3649001 |
| General Use Product Descripti MSDS No. | Inkjet printing on Water based in BHC018 | k cartridge for inkj | et printing machine | |
| Manufacturer | BROTHER INDUSTRIES, LTD. 5-1, Hamada-cho, Minami-ku, Nagoya 457-0822, JAPAN Telephone Number for Information +81-52-824-3445 | | | |
| Importer in USA | BROTHER INTERNATIONAL CORPORATION 100 Somerset Corporate Boulevard, P.O.Box 6911, Bridgewater, NJ 08807-0911, USA Telephone Number for Information +1-800-284-4329 | | | |
| Importer in Canada | BROTHER INTERNA 1 rue Hôtel de Ville, I Telephone Number fo | Dollard-des-Ormea | ux, Québec, H9B 3 | |
| Importer in Australia | BROTHER INTERNATIONAL (AUST.) PTY. LTD. ACN 001 393 835 7 Khartoum Road, North Ryde, N.S.W. 2113 08875-6714, AUSTRALIA Telephone Number for Information +61-2-9887-4344 | | | |
| | BROTHER INTERNATIONAL EUROPE LTD. 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 blue liquid with slight odor. Keep out of reach of children. Ink poses little or no immediate hazard if spilled.

POTENTIAL HEALTH EFFECTS

| normal use |
|-------------|
| |
| on. |
| se effects. |
| |



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Product name: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

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.

| CHEMICAL NAME | CAS# / EC# | % by weight | USA OSHA PEL | ACGIH TLV | EU Symbol / Risk Phrases |
|---------------------------------------|-------------------------|----------------|---|--|-----------------------------|
| Glycerol | 56-81-5 / 200-289-5 | 10 - 30 | (as mist) Total dust TWA 15mg/m ³ Respirable fraction TWA 5mg/m ³ | (as mist) Total dust TWA 10mg/m ³ | Not classified |
| Diethylene glycol | 111-46-6 / 203-872-2 | 1-5 | Not established | Not established | Xn / R22 |
| Triethylene glycol monobutyl ether | 143-22-6 / 205-592-6 | 1-4 | Not established | Not established | Xi / R41 |
| Cyan dye | Registered | 1 - 4 | Not established | Not established | Xi / R41 R52/53 |
| Water | 7732-18-5 / 231-791-2 | 50 - 70 | 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 : Flammability : Flash point :

EXTINGUISHING MEDIA Suitable: Not to be used : 426°C LEL : Not available UEL : Not available Does not flash (>93.3°C) (Tag closed cup & Cleveland opened cup)

Water, CO₂, Foam, Dry chemical. None

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Product name: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

MATERIAL SAFETY DATA SHEET

FIRE FIGHTING INSTRUCTIONS Special exposure hazards : Special protect equipment for fire-fighters :

Refer to section 10. Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION : ENVIRONMENTAL PRECAUTION : METHODES FOR CLEANING UP : In case of ink vapor formation use respirator. Take care to minimize ink that reaches to a sewer. 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 eye contact with ink. STORAGE : Keep out of reach of children. Store in a cool, dark, and dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES :

Refer to section 2.

EXPOSURE CONTROLS

Engineering controls : Personal protection Respiratory protection : Hand protection : Eye protection : Skin protection : Ventilation is not required under normal use.

Not required under normal use. Not required under normal use. Not required under normal use. Not required under normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark blue liquid Auto-ignition temperature : 426°C Boiling point : 103°C Density : 1.07 g/ml Flammability : LEL : Not available UEL : Not available Flash point : Does not flash (>93.3°C) (Tag closed cup & Cleveland opened cup) Freezing point : -9°C Odor : Slight odor Partition coefficient (n-octanol/water) : Not available 7 - 9pH: Solubility in water : Soluble Vapor density (Air=1) : Not available Vapor pressure : Not available Viscosity : 2 - 5 mPa·s

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Product name: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

MATERIAL SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

STABILITY : CONDITIONS TO AVOID : MATERIALS TO AVOID : HAZARDOUS DECOMPOSITION PRODUCTS : HAZARDOUS POLYMERIZATION : Stable None Strong oxidizing agents Carbon monoxide, Carbon dioxide Does not occur

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Eye irritation : Skin irritation : LD₅₀ of ink is greater than 2000mg/kg. Ink is classified as a MINIMAL IRRITANT. Ink is classified as a NON IRRITANT.

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY : BIOACCUMULATIVE POTENTIAL :

Not available Not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT): N MARITIME TRANSPORT IMDG : N AIR TRANSPORT ICAO/IATA : N

Not applicable Not applicable 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).

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at your side Product name: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

MATERIAL SAFETY DATA SHEET

| EU Hazard Symbols : | Xn : Harmful |
|----------------------------------|--|
| | Xi : Irritant |
| EU Risk (R) Phrase definitions : | R22 : Harmful if swallowed. |
| | R41 : Risk of serious damage to eyes. |
| | R52/53 : Harmful to aquatic organisms, may cause long-term |
| | adverse effects in the aquatic environment. |

| 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) |
| TSCA | Toxic Substances Control Act (USA) |
| | |

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

1.1 Product identifier

| LC38C (LK3661001, LK4 LC61C (LK3366001, LK4 LC980C (LK3374001, LK LC1100C (LK3572001, L | 4690001), LC16C (LK3526001, LK4710001), 4196001), LC39C (LK5405001), LC60C (LK5729001), 4297001), LC67C (LK3669001, LK4222001), LC975C (LK5670001), 4048001), LC985C (LK4621001, LK5401001), LC990C (LK4461001), K3985001), LC65HYC (LK3291001, LK4330001), LK4277001), LC990HYC (LK3525001, LK4481001), 1, LK4021001) |
|--|--|
|--|--|

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

| Relevant Identified Use(s) | These products are dark blue 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

| Manufacturer | Brother Industries, Ltd. 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 (24 hours) | CHEMTREC +1-703-527-3887 (International) +1-800-424-9300 (North America) |
| | For France only: |

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

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 Directive 1999/45/EC

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).

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 | 15-25 | Not classified | Not classified |
| Triethylene glycol monobutyl ether | 143-22-6 | 205-592-6 | 1-5 | Xi; R41 | Eye Dam. 1 (H318) |
| Diethylene glycol | 111-46-6 | 203-872-2 | 1-5 | Xn; R22 | Acute Tox. 4 (H302) |
| Cyan Dye (Copper Phthalocyanine | * | 445-470-1 | <5 | Xi; R41 | Eye Dam. 1 (H318) |
| derivative dye) | | | | R52/53 | Aquatic Chronic 3 (H412) |
| 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 Skin Irrit, 2, H315 |
| | | | | Xi; R41 | |
| | | | | Xi; R38 R43 | Eye Dam. 1, H318 Skin Sens. 1, H317 |
| | | | | N; R50 | Aquatic Acute 1, H400 |

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

* Registered

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 rest. |
| 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. |

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 blue 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/ m^3 mist, respirable fraction |
| European Union | - |
| The United Kingdom | STEL: 30 mg/m ³ |
| | TWA: 10 mg/m ³ |

| 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 |
| Chemical Name | Diethylene glycol |
| | 111-46-6 |
| ACGIH TLV | - |
| OSHA PEL | - |
| European Union | - |
| The United Kingdom | STEL: 69 ppm |
| | STEL: 303 mg/m ³ |
| | TWA: 23 ppm |
| | TWA: 101 mg/m ³ |
| Germany | TWA: 10 ppm |
| | TWA: 44 mg/m ³ |
| | Ceiling / Peak: 40 ppm |
| | Ceiling / Peak: 176 mg/m ³ |
| | |
| Denmark | TWA: 2.5 ppm |
| | TWA: 11 mg/m ³ |
| Austria | STEL 40 ppm |
| | STEL 176 mg/m ³ |
| | TWA: 10 ppm |
| | TWA: 44 mg/m ³ |
| Switzerland | STEL: 40 ppm |
| | STEL: 176 mg/m ³ |
| | TWA: 10 ppm |
| | TWA: 44 mg/m ³ |
| Poland | TWA: 10 mg/m ³ |
| Ireland | TWA: 23 ppm |
| | TWA: 100 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 Hand Protection Skin and body protection Respiratory protection | Safety goggles. Protective gloves. Long sleeved clothing and long pants. 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 blue |
| Odor | Slight |
| Odor Threshold | No information available |
| рН | 7 - 9 |
| Melting point/freezing point | -/< -5 °C |
| Initial boiling point and boiling range | > 100 °C |
| Flash Point | Not less than 93.3°C |
| | (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 | |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Relative density | 1.0 - 1.1 (H ₂ O=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.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | No information available. |
|--|--|
| 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 (CO ₂). |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute toxicity | |
|-----------------------------------|--|
| Inhalation | No information available. |
| Eye contact | No information available. |
| Skin contact | No information available. |
| Ingestion | LD ₅₀ > 2000 mg/kg (Method OECD#420) |
| | |
| 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 |

SECTION 12: Ecological information

12.1 Toxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|--|--|---|--|
| Glycerol 56-81-5 | | LC ₅₀ : 51 - 57 mL/L 96 h static (Oncorhynchus mykiss) | EC ₅₀ : >500 mg/L 24 h (Daphnia magna) |
| Triethylene glycol monobutyl ether 143-22-6 | EC ₅₀ : >500 mg/L 72 h (Desmodesmus subspicatus) | LC_{50} : 2200 - 4600 mg/L 96 h static (Leuciscus idus) LC_{50} : 2400 mg/L 96 h static (Pimephales promelas) LC_{50} : 2400 mg/L 96 h (Pimephales promelas) | EC ₅₀ : >500 mg/L 48 h (Daphnia magna) |
| Diethylene glycol 111-46-6 | | LC ₅₀ : 75200 mg/L 96 h flow-through (Pimephales promelas) | EC₅₀: 84000 mg/L 48 h (Daphnia magna) |

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 |
| Diethylene glycol | | -1.98 |
| 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 Code | Not applicable |

Not regulated under DOT, IMDG, IATA.

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 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|--|---|
| 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 H412 - Harmful to aquatic life with long lasting effects |
| 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 2, 3. |
| References: | U.S. 29CFR Part 1910 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: Permissible 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)