SAFETY DATA SHEETS

This SDS packet was issued with item:

070308007

N/A



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First issue: Dec. 26, 2007 Revised: Apr. 10, 2008 MSDS No.: BHC018

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

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name LC65HY-C LC980C LC1100C LC61C Product Code LK33366001 LK3291001 LK3374001 LK3572001 Product Name LC38C LC67C LC990C LC1100HY-C LK3661001 LK3669001 Product Code LK3523001 LK3649001

General Use Inkjet printing

Product Description Water based ink cartridge for inkjet printing machine

MSDS No. BHC018

Manufacturer BROTHER INDUSTRIES, LTD.

5-1, Hamada-cho, Minami-ku, Nagoya 457-0822, JAPAN Telephone Number for Information +81-52-824-3445

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

Importer BROTHER INTERNATIONAL (AUST.) PTY. LTD. ACN 001 393 835 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 blue 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: LC61C, LC65HY-C, LC980C, LC1100C, LC1100HY-C, LC38C, LC67C, LC990C

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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.

| 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: 426°C

Flammability: LEL: Not available UEL: Not available

Flash point: 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



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

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MATERIAL SAFETY DATA SHEET

FIRE FIGHTING INSTRUCTIONS

Special exposure hazards:

Refer to section 10.

Special protect equipment for fire-fighters:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION:

In case of ink vapor formation use respirator.

ENVIRONMENTAL PRECAUTION: METHODES FOR CLEANING UP:

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:

Ventilation is not required under normal use.

Personal protection

Respiratory protection: Hand protection:

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

Eye protection: Skin protection:

Not required under normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Dark blue liquid

Auto-ignition temperature:

426°C 103°C

Boiling point: Density:

1.07 g/ml

Flammability:

LEL: Not available UEL: Not available

Does not flash (>93.3°C)

Flash point:

(Tag closed cup & Cleveland opened cup)

Freezing point:

-9°C

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

pH:

7 - 9

Solubility in water:

Soluble

Vapor density (Air=1):

Not available Not available

Vapor pressure: Viscosity:

2 - 5 mPa·s



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

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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).



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

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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

ACGIHTLV 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 (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

Product name (code)

LC11C (LK3637001, LC4690001), LC16C (LK3526001, LK4710001), LC38C (LK3661001, LK4196001), LC39C (LK5405001), LC60C (LK5729001),

LC61C (LK3366001, LK4297001), LC67C (LK3669001, LK4222001), LC975C (LK5670001), LC980C (LK3374001, LK4048001), LC985C (LK4621001, LK5401001), LC990C (LK4461001),

LC1100C (LK3572001, LK3985001), LC65HYC (LK3291001, LK4330001), LC67HYC (LK3524001, LK4277001), LC990HYC (LK3525001, LK4481001),

LC1100HYC (LK3523001, 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) +61-290372994 (Australia)

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 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).

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 |
| | | | | 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

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.

^{*} Registered

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 firefightersUse 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/m³ mist, respirable fraction |
| European Union | <u>-</u> |
| 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/m³ |
| 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/m³ |
| | |
| 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.

Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied: Personal protective equipment

Eye Protection Safety goggles. Hand Protection Protective gloves.

Skin and body protection Long sleeved clothing and long pants.

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 blue
Odor Slight

Odor Threshold No information available

pH 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

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 (CO₂).

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

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

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

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

Mutagenicity Negative. (Method: OECD#471)

Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and $\ensuremath{\mathsf{OSHA}}$ Carcinogenicity

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 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) | EC ₅₀ : 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

15.1 Safety, health and environmental 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 1, 2.

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: 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)