Page 1 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: ____ Product Code: IC1453-0202 0620B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank CLI-8BK

Product Code: 0620B

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| _ 1 | Ingredient(s | .) ~ |
|-----|--------------|------|
| | mei caichas |)/ |

| < Ingredient(s) > | CAC # / | XX7 - 2 - 1 - 4 | EU Comball | TICA | | | DEG 14.44 |
|---------------------------------------|--------------------------|-----------------|------------------------|---|---|---|------------------------------|
| Chemical Name / Generic Name | CAS # / EC # | Weight % | EU Symbol/ R-Phrase | USA OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
| Glycerin | 56-81-5 / 200-289-5 | 5 - 10 | None / None | $(as mist) \\ Total dust \\ TWA = 15 mg/m^3 \\ Respirable fraction \\ TWA = 5 mg/m^3$ | (as mist) TWA = 10 mg/m ³ | Not established | Not established |
| Ethylene glycol | 107-21-1 / 203-473-3 | 5 - 10 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m ³ | $TWA = 20 \text{ ppm},$ 52 mg/m^3 $STEL = 40 \text{ ppm},$ 104 mg/m^3 | 10 ppm, 26 mg/m ³ |
| Substituted naphthalene sulfonic acid | Confidential | 1 - 3 | Xi / R41 | Not established | Not established | Not established | Not established |
| Heterocyclic compound | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-791-2 | 60 - 80 | None / None | Not established | Not established | Not established | Not established |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Page 2 of 8 IC1453-0202



MATERIAL SAFETY DATA SHEET

MSDS #: ____ Product Code:

0620B

< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing black liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eye:

May cause moderate irritation. (See SECTION 11)

Skin:

Neither irritation nor sensitization is expected. (See SECTION 11)

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

Note to Physicians:

None



MSDS #: IC1453-0202
Product Code: 0620B

| SECTION 5 FIRE FIG | GHTING MEASURES | | | |
|--|------------------------------------|--|--|--|
| Fire Fighting Measures: | | | | |
| Extinguishing Media: | | | | |
| CO ₂ , water, foam or dr | y chemicals | | | |
| Unsuitable Extinguishing | g Media: | | | |
| None | | | | |
| Special Fire Fighting Pr None | ocedures: | | | |
| Unusual Fire and Explos | ion Hazards: | | | |
| None | | | | |
| Fire and Explosive Propertie | es (See also Section 9): | | | |
| Hazardous Combustion | Products: | | | |
| CO, CO ₂ , NOx and SC |)x | | | |
| Other Properties: | | | | |
| None | | | | |
| SECTION 6 ACCIDE | NTAL RELEASE MEASURES | | | |
| Personal Precautions: | | | | |
| Avoid contact with skin, | eyes and clothing. | | | |
| Environmental Precautions: | | | | |
| | surface water or ground water. | | | |
| Method for Cleaning Up: | | | | |
| Wipe off with wet cloth of | or paper. | | | |
| SECTION 7 HANDLE | ING AND STORAGE | | | |
| | ING AND STORAGE | | | |
| Handling: Use with adequate ventil | ation | | | |
| Avoid contact with skin, | | | | |
| In case of contact, wash out the contaminated area immediately. | | | | |
| Storage: | | | | |
| Keep in a cool and dry pl | ace. | | | |
| Protect from sunlight. | | | | |
| Keep out of the reach of children. | | | | |
| Specific Uses: | | | | |
| Ink for Ink Jet Printer. For more information, please refer to the instruction of this product. | | | | |
| | * | | | |
| SECTION 8 EXPOSU | JRE CONTROLS / PERSONAL PROTECTION | | | |
| Exposure Guidelines: | | | | |
| - | nk. (See also SECTION 2) | | | |
| Engineering Controls: | | | | |
| Use adequate ventilation | | | | |
| Personal Protection Equipm | | | | |
| Respiratory Protection: | ☐ Required ☐ Not Required | | | |
| Eye/Face Protection: | ZN 110t Required | | | |
| | • | | | |
| Eye/Face I Totection. | Required | | | |
| Skin Protection: | • | | | |

Page 4 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: IC1453-0202
Product Code: 0620B

| SECTION 9 PHYSICAL AND CHE | EMICAL PROPERTIES |
|---|---|
| Appearance: | Black liquid |
| Odor: | Slight odor |
| pH: | 8 - 10 |
| Boiling Point/Range(${}^{\circ}$ C): | Not available |
| Melting Point/Range($^{\circ}$ C): | Not available |
| Decomposition Temperature (°C): | Not available |
| Flash Point(°C): | None (Tag. Closed Cup.) |
| Flammable (Explosive) Limits: | Not available |
| Autoignition Temperature ($^{\circ}$ C): | Not available |
| Flammability: | Neither flammable nor combustible. |
| Explosive Properties: | None |
| Oxidizing Properties: | None |
| Vapor Pressure : | Not available |
| Vapor Density: | Not available |
| Density / Specific Gravity: | 1.0 - 1.1 |
| Water Solubility : | Miscible |
| Fat Solubility: | Not available |
| $\label{partition} \textbf{Partition Coefficient (n-Octanol/Water):}$ | Not available |
| Percent Volatile (%): | 60 - 80 |
| Evaporation Rate: | Not available |
| Viscosity (mPa s): | 1-3 |
| SECTION 10 STABILITY AND REA | ACTIVITY |
| Stability: | Stable Unstable |
| Conditions to Avoid: | None |
| Materials to Avoid: | Acids, bases, oxidizing materials and reducing agents |
| Hazardous Decomposition Products: | CO, CO ₂ , NOx and SOx |
| Hazardous Polymerization: | ☐ May Occur ☑ Will Not Occur |
| Conditions to Avoid: | None |

Page 5 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: _____ Product Code:

IC1453-0202 0620B

| | | · · · · · · · · · · · · · · · · · · · | | |
|------------------------|---------------------------------------|---------------------------------------|--|--|
| SECTION 11 | TOXICOLOGICAL INFORMATION | | | |
| Acute Toxicity: | | | | |
| Inhalation: | | | | |
| Not availa | ble | | | |
| Ingestion: | | | | |
| $LD_{50} > 200$ | 00 mg/kg (rat) | | | |
| OECD Gu | idelines No.423 (2001) | | | |
| 96/54/EC | Method B1 tris | | | |
| Eye: | | | | |
| Moderatel | y irritating (rabbit) | | | |
| OECD | Guidelines No.405 (2002) | | | |
| 92/69/E | EC Method B5 | | | |
| Skin: | | | | |
| Not irritar | t (rabbit) | | | |
| OECD | OECD Guidelines No.404 (2002) | | | |
| 92/69/E | EC Method B4 | | | |
| Sensitization: | | | | |
| Non-sensi | tizer (guinea pig) | | | |
| OECD | OECD Guidelines No.406 (1992) | | | |
| 96/54/E | CC Method B6 | | | |
| Mutagenicity: | | | | |
| Ames test | : Negative (S. typhimurium & E. Coli) | | | |
| Paproductive To | zioitze | | | |

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

Page 6 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1453-0202
Product Code: 0620B

| SECTION 12 E | COLOGICAL INFORMATION | | | |
|---------------------------------------|---|--|--|--|
| Mobility: | Not available | | | |
| Persistence / Degradability: | Not available | | | |
| Bioaccumulation: | Not available | | | |
| Ecotoxicity: | Not available | | | |
| Other Adverse Effec | ts: Not available | | | |
| | DISPOSAL CONSIDERATIONS | | | |
| Method of Disposal: | | | | |
| Disposal should b | be subject to federal, state and local laws. | | | |
| SECTION 14 T | TRANSPORT INFORMATION | | | |
| UN #: | None | | | |
| UN Shipping Name: | None | | | |
| UN Classification: | None | | | |
| UN Packing Group: | None | | | |
| Marine Pollutant: | ☐ Yes Chemical name (wt%): ☑ No | | | |
| Special Precautions: | None | | | |
| SECTION 15 R | REGULATORY INFORMATION | | | |
| < EU Information > | | | | |
| Information on the La | abel: | | | |
| Symbol & Indicat | tion: Not required | | | |
| R-Phrase: | | | | |
| Not required | | | | |
| S-Phrase: | | | | |
| Not required Dangerous Component(s): | | | | |
| Not required | (Micheles). | | | |
| Special Precaution | ons under 1999/45/EC Annex V: | | | |
| Not required | | | | |
| Specific Provisions in | Relation to Protection of Man or the Environment: | | | |
| 76/769/EEC: | Not regulated | | | |
| (EC)2037/2000: | Not regulated | | | |
| (EC)304/2003: | Not regulated | | | |
| Others: | None | | | |
| | | | | |

Page 7 of 8

Canon

MATERIAL SAFETY DATA SHEET

IC1453-0202 MSDS #: Product Code: 0620B

< USA Information >

Information on the Label under FHSA:

Signal Word: Not required

Hazard warning:

Not required

Safety Advice:

Not required

Hazardous Component(s):

Not required

SARA Title III §313:

Chemical Name

Weight %

5 - 10

"Ethylene glycol" (107-21-1)

California Proposition 65:

Chemical Name

Weight %

None

< Canada Information >

WHMIS Controlled Product:

Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<R phrase list>

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

<Revised information from the previous version>

Section 15

Date of Issue: Revised: April 22, 2005 September 29, 2005



MSDS #: IC1453-0202
Product Code: 0620B

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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0621B

DFG MAK



MATERIAL SAFETY DATA SHEET

USA

ACGIH TLV

IC1454-0101 MSDS #: Product Code:

EU ILV

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank CLI-8C

CAS#/

Product Code: 0621B

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph # 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY,11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC #1-800-424-9300

EU Symbol/

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Weight

| < Ingredient(s) > |
|-------------------|
| Chemical Name / |

| Generic Name / | EC# | weight % | R-Phrase | OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
|----------------------------|--------------------------|-------------|--------------------|---|---|--|--|
| Glycerin | 56-81-5 / 200-289-5 | 5 - 10 | None / None | (as mist) Total dust TWA = 15 mg/m³ Respirable fraction TWA = 5 mg/m³ | (as mist) TWA = 10 mg/m ³ | Not established | Not established |
| Ethylene glycol | 107-21-1 / 203-473-3 | 5 - 10 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m ³ | TWA = 20 ppm, 52 mg/m ³ STEL = 40 ppm, 104 mg/m ³ | 10 ppm, 26 mg/m ³ |
| Substituted phthalocyanine | Confidential | 2 - 6 | Xi / R41 R52/53 | Not established | Not established | Not established | Copper and its compounds Inhalable fraction 1.0 mg/m ³ |
| Lactam | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Ammonia derivative | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-791-2 | 60 - 80 | None / None | Not established | Not established | Not established | Not established |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Date of Issue: Revised: April 22, 2005



MSDS #: IC1454-0101
Product Code: 0621B

< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing cyan liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eve:

May cause slight irritation. (See SECTION 11)

Skin:

May cause no irritation and mild sensitization. (See SECTION 11)

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

Note to Physicians:

None



MSDS #: IC1454-0101
Product Code: 0621B

| SECTION 5 FIRE FIGHTING MEASURES | | | | |
|--|---|--|--|--|
| Fire Fighting Measures: | | | | |
| Extinguishing Media: | | | | |
| CO ₂ , water, foam or dry chemicals | | | | |
| Unsuitable Extinguishing Media: | | | | |
| None | | | | |
| Special Fire Fighting Procedures: | | | | |
| None | | | | |
| Unusual Fire and Explosion Hazards: | | | | |
| None | | | | |
| Fire and Explosive Properties (See also Section 9): | | | | |
| Hazardous Combustion Products: | | | | |
| CO, CO ₂ , NOx and SOx | | | | |
| Other Properties: | | | | |
| None | | | | |
| SECTION 6 ACCIDENTAL RELEASE MEASURES | | | | |
| | | | | |
| Personal Precautions: | | | | |
| Avoid contact with skin, eyes and clothing. | | | | |
| Environmental Precautions: | | | | |
| Do not release to sewer, surface water or ground water. | — | | | |
| Method for Cleaning Up: | | | | |
| Wipe off with wet cloth or paper. | — | | | |
| SECTION 7 HANDLING AND STORAGE | | | | |
| Handling: | | | | |
| Use with adequate ventilation. | | | | |
| Avoid contact with skin, eyes and clothing. | | | | |
| In case of contact, wash out the contaminated area immediately. | | | | |
| Storage: | | | | |
| Keep in a cool and dry place. | | | | |
| Protect from sunlight. | | | | |
| Keep out of the reach of children. | | | | |
| Specific Uses: | | | | |
| Ink for Ink Jet Printer. | | | | |
| For more information, please refer to the instruction of this product. | | | | |
| SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION | | | | |
| Exposure Guidelines: | | | | |
| Not established for this ink. (See also SECTION 2) | | | | |
| Engineering Controls: | | | | |
| Use adequate ventilation. | | | | |
| Personal Protection Equipment(s): | | | | |
| Respiratory Protection: Required | | | | |
| Not Required | | | | |
| Eye/Face Protection: Required | | | | |
| Not Required | | | | |
| Skin Protection: Required | | | | |
| Not Required | | | | |
| | | | | |

Page 4 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: IC1454-0101
Product Code: 0621B

| SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES | | | |
|---|---|--|--|
| Appearance: | Cyan liquid | | |
| Odor: | Slight odor | | |
| pH: | 7 - 9 | | |
| Boiling Point/Range(${}^{\circ}C$): | Not available | | |
| Melting Point/Range($^{\circ}$ C): | Not available | | |
| Decomposition Temperature (°C): | Not available | | |
| Flash Point(°C): | None (Tag. Closed Cup.) | | |
| Flammable (Explosive) Limits: | Not available | | |
| Autoignition Temperature(°C): | Not available | | |
| Flammability: | Neither flammable nor combustible. | | |
| Explosive Properties: | None | | |
| Oxidizing Properties: | None | | |
| Vapor Pressure : | Not available | | |
| Vapor Density: | Not available | | |
| Density / Specific Gravity: | 1.0 - 1.1 | | |
| Water Solubility : | Miscible | | |
| Fat Solubility: | Not available | | |
| $\label{partition} \textbf{Partition Coefficient (n-Octanol/Water):}$ | Not available | | |
| Percent Volatile (%): | 60 - 80 | | |
| Evaporation Rate: | Not available | | |
| Viscosity (mPa s): | 1-3 | | |
| SECTION 10 STABILITY AND REA | ACTIVITY | | |
| Stability: | | | |
| Conditions to Avoid: | None | | |
| Materials to Avoid: | Acids, bases, oxidizing materials and reducing agents | | |
| Hazardous Decomposition Products: | CO, CO ₂ , NOx, SOx and Ammonia | | |
| Hazardous Polymerization: | ☐ May Occur ☑ Will Not Occur | | |
| Conditions to Avoid: | None | | |



Not available

MATERIAL SAFETY DATA SHEET

MSDS #: IC1454-0101
Product Code: 0621B

SECTION 11 TOXICOLOGICAL INFORMATION **Acute Toxicity: Inhalation:** Not available **Ingestion:** $LD_{50} > 2000 \text{ mg/kg (rat)}$ OECD Guidelines No.423 (2001) 96/54/EC Method B1 tris Eye: Slightly irritating (rabbit) OECD Guidelines No.405 (2002) 92/69/EEC Method B5 Skin: Not irritant (rabbit) OECD Guidelines No.404 (2002) 92/69/EEC Method B4 **Sensitization:** Mild sensitizer (guinea pig) OECD Guidelines No.406 (1992) 96/54/EC Method B6 Mutagenicity: Ames test: Negative (S. typhimurium & E. Coli) **Reproductive Toxicity:** Not available Carcinogenicity: Not available Others:

Page 6 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1454-0101
Product Code: 0621B

| SECTION 12 | ECOLOGICAL INFORMATION |
|--|--|
| Mobility: | Not available |
| Persistence / Degradability: | Not available |
| Bioaccumulation: | Not available |
| Ecotoxicity: | Not available |
| Other Adverse Effe | Not available Not available |
| SECTION 13 | DISPOSAL CONSIDERATION |
| Method of Disposal Disposal should | : be subject to federal, state and local laws. |
| SECTION 14 | TRANSPORT INFORMATION |
| UN #: | None |
| UN Shipping Name | None |
| UN Classification: | None |
| UN Packing Group: | None |
| Marine Pollutant: | ☐ Yes Chemical name (wt%): ☑ No |
| Special Precaution | S: None |
| SECTION 15 < EU Information > Information on the | REGULATORY INFORMATION Label: |
| Symbol & Indic | ation: Not required |
| R-Phrase: | • |
| Not required S-Phrase: | |
| Not required | |
| Dangerous Com None | |
| Special Precaut Not required | tions under 1999/45/EC Annex V: |
| Specific Provisions i | in Relation to Protection of Man or the Environment: |
| 76/769/EEC: | Not regulated |
| (EC)2037/2000 | : Not regulated |
| (EC)304/2003: | Not regulated |
| Others: | None |
| | |



IC1454-0101 MSDS #: Product Code: 0621B

< USA Information >

under FHSA: **Information on the Label**

Signal Word: Not required Hazard warning:

Not required

Safety Advice:

Not required

Hazardous Component(s):

None

SARA Title III §313:

| Chemical Name | Weight % |
|------------------------------|----------|
| "Ethylene glycol" (107-21-1) | 5 - 10 |
| "Copper Compounds" | 2 - 6 |
| (as Cu) | (< 0.35) |

California Proposition 65:

Chemical Name Weight % None

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

This product contains a chemical substance which is being introduced under a Low Volume Chemical

Permit granted under section 21U(2) of the Industrial Chemicals (Notification and Assessment) Act 1989.

SECTION 16

OTHER INFORMATION

<R phrase list>

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.

Revised: Date of Issue: April 22, 2005

Page 8 of 8

MSDS #: IC1454-0101

Product Code: 0621B

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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MSDS #: IC1455-0101
Product Code: 0622B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank CLI-8M

Product Code: 0622B

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph # 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY,11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC #1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| < | Ingredient | S |) > |
|---|------------|---|-----|
| | | | |

| Chemical Name / Generic Name | CAS # / EC # | Weight % | EU Symbol/ R-Phrase | USA OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
|--|-------------------------------|-------------|------------------------|---|---|---|------------------------------|
| Ethylene glycol | 107-21-1 / 203-473-3 | 5 - 10 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m ³ | $TWA = 20 \text{ ppm},$ 52 mg/m^3 $STEL = 40 \text{ ppm},$ 104 mg/m^3 | 10 ppm, 26 mg/m ³ |
| Glycerin | 56-81-5 / 200-289-5 | 2 - 6 | None / None | (as mist) Total dust TWA = 15 mg/m ³ Respirable fraction TWA = 5 mg/m ³ | (as mist) TWA = 10 mg/m ³ | Not established | Not established |
| Poly(oxy-1,2-ethanediyl), .alpha.,alpha.'[1,4-dimethyl-1,4- bis(2-methylpropyl)-2-butyne-1,4- diyl]bis[.omegahydroxy- | 9014-85-1 / Not applicable | 1 - 3 | Xi / R41 | Not established | Not established | Not established | Not established |
| Lactam | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Ammonia derivative | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Magenta dye | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-791-2 | 60 - 80 | None / None | Not established | Not established | Not established | Not established |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



MSDS #: IC1455-0101
Product Code: 0622B

< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing magenta liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eye:

May cause slight irritation. (See SECTION 11)

Skin:

Neither irritation nor sensitization is expected. (See SECTION 11)

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

Note to Physicians:

None



MSDS #: IC1455-0101
Product Code: 0622B

| SECTION 5 FIRE FIG | GHTING MEASURES | | |
|---|--|--|--|
| Fire Fighting Measures: | | | |
| Extinguishing Media: | | | |
| CO ₂ , water, foam or d | CO ₂ , water, foam or dry chemicals | | |
| Unsuitable Extinguishin | g Media: | | |
| None | | | |
| Special Fire Fighting P i None | cocedures: | | |
| Unusual Fire and Explos | sion Hazards: | | |
| None | | | |
| Fire and Explosive Properti | es (See also Section 9): | | |
| Hazardous Combustion | | | |
| CO, CO ₂ , NOx and SO | Ox | | |
| Other Properties: | | | |
| None | | | |
| SECTION 6 ACCIDE | ENTAL RELEASE MEASURES | | |
| | AVIAD REJEASE WEASURES | | |
| Personal Precautions: Avoid contact with skin. | avec and elething | | |
| | • | | |
| Environmental Precautions: | surface water or ground water. | | |
| Method for Cleaning Up: | surface water of ground water. | | |
| Wipe off with wet cloth | or naner | | |
| wipe on with wet cloth | л рарот. | | |
| SECTION 7 HANDL | ING AND STORAGE | | |
| Handling: | | | |
| Use with adequate ventil | | | |
| Avoid contact with skin | · · | | |
| | out the contaminated area immediately. | | |
| Storage: | | | |
| Keep in a cool and dry p. Protect from sunlight. | ace. | | |
| Keep out of the reach of | children | | |
| Specific Uses: | omaron. | | |
| Ink for Ink Jet Printer. | | | |
| | ease refer to the instruction of this product. | | |
| SECTION 8 EXPOS | URE CONTROLS / PERSONAL PROTECTION | | |
| Exposure Guidelines: | | | |
| _ | nk. (See also SECTION 2) | | |
| Engineering Controls: | | | |
| Use adequate ventilation | 1. | | |
| Personal Protection Equipm | | | |
| Respiratory Protection: | | | |
| ~ • | ☑ Not Required | | |
| Eye/Face Protection: | Required | | |
| | Not Required | | |
| Skin Protection: | Required | | |
| | ☑ Not Required | | |

Page 4 of 8



MATERIAL SAFETY DATA SHEET

| MSDS #: | IC1455-010 |
|---------------|------------|
| Product Code: | 06221 |

| SECTION 9 PHYSICAL AND CHE | EMICAL PROPERTIES |
|---|---|
| Appearance: | Magenta liquid |
| Odor: | Slight odor |
| pH: | 8 - 9 |
| Boiling Point/Range($^{\circ}$ C): | Not available |
| Melting Point/Range(°C): | Not available |
| Decomposition Temperature (°C): | Not available |
| Flash Point(°C): | None (Tag. Closed Cup.) |
| Flammable (Explosive) Limits: | Not available |
| Autoignition Temperature (°C): | Not available |
| Flammability: | Neither flammable nor combustible. |
| Explosive Properties: | None |
| Oxidizing Properties: | None |
| Vapor Pressure : | Not available |
| Vapor Density : | Not available |
| Density / Specific Gravity: | 1.0 - 1.1 |
| Water Solubility : | Miscible |
| Fat Solubility : | Not available |
| Partition Coefficient (n-Octanol/Water): | Not available |
| Percent Volatile (%): | 60 - 80 |
| Evaporation Rate: | Not available |
| Viscosity (mPa s): | 1-3 |
| SECTION 10 STABILITY AND REA | ACTIVITY |
| Stability: | Stable Unstable |
| Conditions to Avoid: | None |
| Materials to Avoid: | Acids, bases, oxidizing materials and reducing agents |
| Hazardous Decomposition Products: | CO, CO ₂ , NOx, SOx and Ammonia |
| Hazardous Polymerization: | ☐ May Occur ☑ Will Not Occur |
| Conditions to Avoid: | None |



IC1455-0101 MSDS #:

Product Code: 0622B **SECTION 11** TOXICOLOGICAL INFORMATION **Acute Toxicity: Inhalation:** Not available **Ingestion:** $LD_{50} > 2000 \text{ mg/kg (rat)}$ OECD Guidelines No.423 (2001) 96/54/EC Method B1 tris Eye: Slightly irritating (rabbit) OECD Guidelines No.405 (2002) 92/69/EEC Method B5 Skin: Considered to be "not irritating" based on the classification criteria under 2001/59/EC (rabbit) OECD Guidelines No.404 (2002) 92/69/EEC Method B4 **Sensitization:** Non-sensitizer (guinea pig) OECD Guidelines No.406 (1992) 96/54/EC Method B6 Mutagenicity: Ames test: Negative (S. typhimurium & E. Coli) **Reproductive Toxicity:** Not available

Carcinogenicity:

Not available

Others:

Not available

Date of Issue: Revised: April 22, 2005

Page 6 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1455-0101
Product Code: 0622B

| SECTION 12 E | COLOGICAL INFORMATION |
|---------------------------------|---|
| Mobility: | Not available |
| Persistence / Degradability: | Not available |
| Bioaccumulation: | Not available |
| Ecotoxicity: | Not available |
| Other Adverse Effec | ts: Not available |
| SECTION 13 D | DISPOSAL CONSIDERATION |
| Method of Disposal: | |
| Disposal should b | be subject to federal, state and local laws. |
| SECTION 14 T | TRANSPORT INFORMATION |
| UN #: | None |
| UN Shipping Name: | None |
| UN Classification: | None |
| UN Packing Group: | None |
| Marine Pollutant: | ☐ Yes Chemical name (wt%): ☒ No |
| Special Precautions: | None |
| | REGULATORY INFORMATION |
| < EU Information > | |
| Information on the L | abel: |
| Symbol & Indica | tion: Not required |
| R-Phrase: | |
| Not required | |
| S-Phrase: Not required | |
| Dangerous Comp | ponent(s): |
| None | |
| - | ons under 1999/45/EC Annex V: |
| Not required | |
| Specific Provisions in | Relation to Protection of Man or the Environment: |
| 76/769/EEC: | Not regulated |
| (EC)2037/2000: | Not regulated |
| (EC)304/2003: | Not regulated |
| Others: | None |

Page 7 of 8



MATERIAL SAFETY DATA SHEET

IC1455-0101 MSDS #: Product Code: 0622B

< USA Information >

under FHSA: **Information on the Label**

Signal Word:

Not required

Hazard warning:

Not required

Safety Advice:

Not required

Hazardous Component(s):

None

SARA Title III §313:

Chemical Name

Weight %

"Ethylene glycol" (107-21-1)

5 - 10

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

This product contains a chemical substance which is being introduced under a Low Volume Chemical

Permit granted under section 21U(2) of the Industrial Chemicals (Notification and Assessment) Act

1989.

SECTION 16 OTHER INFORMATION

<R phrase list>

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

Revised: Date of Issue: April 22, 2005



MSDS #: IC1455-0101
Product Code: 0622B

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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Page 1 of 8

0623B

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1456-0202

Product Code:

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank CLI-8Y

Product Code: 0623B

Manufacturer: Canon Inc.,30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan, Ph# 03-3857-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| SECTION 2 | COMITOSI | 11011/1 | MINIMIN | DI ON HIGHE | DIENTS | | |
|--|--------------------------|---------|------------------------|---|---|-----------------|------------------------------|
| < Ingredient(s) > Chemical Name / Generic Name | CAS #/ EC # | Weight | EU Symbol/ R-Phrase | USA OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
| Glycerin | 56-81-5 / 200-289-5 | 5 - 10 | None / None | (as mist) Total dust TWA = 15 mg/m³ Respirable fraction TWA = 5 mg/m³ | (as mist) TWA = 10 mg/m ³ | Not established | Not established |
| Diethylene glycol | 111-46-6 / 203-872-2 | 5 - 10 | Xn / R22 | Not established | Not established | Not established | 10 ppm, 44 mg/m ³ |
| Lactam | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-791-2 | 60 - 80 | None / None | Not established | Not established | Not established | Not established |
| | | | | | | | |
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Page 2 of 8 IC1456-0202



MATERIAL SAFETY DATA SHEET

MSDS #: ___ Product Code:

0623B

< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing yellow liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eye:

No irritation is expected. (See SECTION 11)

Skin:

Neither irritation nor sensitization is expected. (See SECTION 11)

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

Note to Physicians:

None

Page 3 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: IC1456-0202
Product Code: 0623B

| SECTION 5 FIRE FIG | GHTING MEASURES |
|---|--|
| Fire Fighting Measures: | |
| Extinguishing Media: | |
| CO ₂ , water, foam or dry | |
| Unsuitable Extinguishin None | g Media: |
| Special Fire Fighting Pro None | ocedures: |
| Unusual Fire and Explos None | ion Hazards: |
| Fire and Explosive Propertie | es (See also Section 9): |
| Hazardous Combustion | |
| CO, CO ₂ , NOx and SC | X |
| Other Properties: None | |
| SECTION 6 ACCIDE | NTAL RELEASE MEASURES |
| Personal Precautions: | |
| Avoid contact with skin, ey | |
| Environmental Precautions: | |
| | urface water or ground water. |
| Method for Cleaning Up: Wipe off with wet cloth or | naner |
| wipe on with wet cloth of | рарст. |
| SECTION 7 HANDLI | NG AND STORAGE |
| Handling: | |
| Use with adequate ventilat | |
| Avoid contact with skin, ey In case of contact, wash ou | t the contaminated area immediately. |
| Storage: | |
| Keep in a cool and dry place | ce. |
| Protect from sunlight. | |
| Keep out of the reach of ch | ildren. |
| Specific Uses: | |
| Ink for Ink Jet Printer. | use refer to the instruction of this product |
| <u> </u> | se refer to the instruction of this product. |
| SECTION 8 EXPOSU | RE CONTROLS / PERSONAL PROTECTION |
| Exposure Guidelines: Not established for this inl | c. (See also SECTION 2) |
| Engineering Controls: Use adequate ventilation. | |
| Personal Protection Equipm | ent(s): |
| Respiratory Protection: | |
| | ➤ Not Required |
| Eye/Face Protection: | Required |
| | ➤ Not Required |
| Skin Protection: | Required |
| | ■ Not Required |

Page 4 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1456-0202
Product Code: 0623B

| SECTION 9 PHYSICAL AND C | HEMICAL PROPERTIES | | |
|---|---|--|--|
| Appearance: | Yellow liquid | | |
| Odor: | Slight odor | | |
| pH: | 8 - 10 | | |
| Boiling Point/Range(°C): | Not available | | |
| Melting Point/Range(°C): | Not available | | |
| Decomposition Temperature (${}^{\circ}$ C): | Not available | | |
| Flash Point(°C): | None (Tag. Closed Cup.) | | |
| Flammable (Explosive) Limits: | Not available | | |
| Autoignition Temperature(°C): | Not available | | |
| Flammability: | Neither flammable nor combustible. | | |
| Explosive Properties: | Estimate: None | | |
| Oxidizing Properties: | Estimate: None | | |
| Vapor Pressure : | Not available | | |
| Vapor Density : | Not available | | |
| Density / Specific Gravity: | 1.0 - 1.1 | | |
| Water Solubility : | Miscible | | |
| Fat Solubility: | Not available | | |
| Partition Coefficient (n-Octanol/Water) | Not available | | |
| Percent Volatile (%): | 60 - 80 | | |
| Evaporation Rate: | Not available | | |
| Viscosity (mPa s): | 1 - 5 | | |
| SECTION 10 STABILITY AND R | REACTIVITY | | |
| Stability: | ⊠ Stable | | |
| Stability. | ☐ Unstable | | |
| Conditions to Avoid: | None | | |
| Materials to Avoid: | Acids, bases, oxidizing materials and reducing agents | | |
| Hazardous Decomposition Products: | CO, CO ₂ , NOx, SOx and Ammonia | | |
| Hazardous Polymerization: | ☐ May Occur ☑ Will Not Occur | | |
| Conditions to Avoid: | None | | |
| | | | |

Page 5 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: _____

Product Code:

IC1456-0202 0623B

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

 $LD_{50} > 2000 \text{ mg/kg (rat)}$

OECD Guidelines No.423 (2001), 96/54/EC Method B1 tris

Eye:

Practically non-irritating (rabbit)

OECD Guidelines No.405 (2002), 92/69/EEC Method B5

Skin:

Not irritant (rabbit)

OECD Guidelines No.404 (2002), 92/69/EEC Method B4

Sensitization:

Non-sensitizer (guinea pig)

OECD Guidelines No.406 (1992), 96/54/EC Method B6

Mutagenicity:

Ames test: Negative (S. typhimurium & E. Coli)

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

Page 6 of 8

0623B

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1456-0202

Product Code:

| SECTION 12 I | ECOLOGICAL INFORMATION | | | | | |
|---------------------------------|--|--|--|--|--|--|
| Mobility: | Not available | | | | | |
| Persistence / Degradability: | Not available | | | | | |
| Bioaccumulation: | Not available | | | | | |
| Ecotoxicity: | Not available | | | | | |
| Other Adverse Effec | cts: Not available | | | | | |
| Method of Disposal: | DISPOSAL CONSIDERATIONS : be subject to federal, state and local laws. | | | | | |
| SECTION 14 | TRANSPORT INFORMATION | | | | | |
| UN #: | None | | | | | |
| UN Shipping Name: | None | | | | | |
| UN Classification: | None | | | | | |
| UN Packing Group: | None | | | | | |
| Marine Pollutant: | ☐ Yes Chemical name (wt%): No | | | | | |
| Special Precautions | None | | | | | |
| SECTION 15 F < EU Information > | REGULATORY INFORMATION | | | | | |
| Information on the l | Label: | | | | | |
| Symbol & Indica | ation: Not required | | | | | |
| R-Phrase: Not required | | | | | | |
| S-Phrase: Not required | | | | | | |
| Not required | ponent(s): | | | | | |
| - | ions under 1999/45/EC Annex V: | | | | | |
| Not required | | | | | | |
| • | n Relation to Protection of Man or the Environment: | | | | | |
| 76/769/EEC: | Not regulated | | | | | |
| (EC)2037/2000: | | | | | | |
| (EC)304/2003: | Not regulated | | | | | |
| Others: None | | | | | | |

Page 7 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1456-0202
Product Code: 0623B

< USA Information >

Information on the Label under FHSA:

Signal Word: Not required

Hazard warning:

Not required

Safety Advice: Not required

Hazardous Component(s):

Not required

SARA Title III §313:

Chemical Name Weight %

None

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<R phrase list>

R22: Harmful if swallowed.

<Revised information from the previous version>

Section 3, 9, 11 and 15



MSDS #: IC1456-0202
Product Code: 0623B

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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