



Cover Sheet: Safety Data Sheets

Trade Name: BradyJet™

Brady Part Numbers:

Catalog Number	Y-number
P-CMY-1	Y5133847
P-K-1	Y5133848
P-1CMY2K	Y5778528
P-2CMY1K	Y5778529
J7300-SFID	Y5302976
J7300-W-SFID	Y5302975
J7300-PWID	Y5302977
J7300-W-PWID	Y5302978
J7300-LAB	Y5302979
J7300-W-LAB	Y5302980

The attached SDSs also apply to future products that include the P-CMY-1 or P-K-1 ink cartridges.

Safety Data Sheet

1. Product and company identification

Description	: INK CARTRIDGE LOTUS COLOR
Part numbers	: SJBBDT1XXA
Recommended Use	: Ink for Ink Jet Printer
Manufacturer	: FUNAI ELECTRIC CO., LTD.
Address	: 7-7-1, Nakagaito, Daito, Osaka 574-0013, Japan
Tel	: +81-72-870-4459
Information about the product	: Product Environmental Office
Fax	: +81-72-870-5817
e-mail	: funai_green@funai.co.jp
Emergency phone number	For Hazardous Materials Incident Spill, Leak, Fire, Exposure, or Accident +1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. Hazards identification

Classification under OSHA HCS	: Not classified
Label element	

Hazard symbol



Signal word

:
: Danger.

Hazard statements

: May cause an allergic skin reaction.
May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statements

: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid release to the environment.

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Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/ attention.

Other hazards which do not result in classification : None

3. Composition/information on ingredients

Substance/Mixture: Mixture

•Cyan Ink

Name	%	CAS No.	OSHA PEL	ACGIH TLV
Water	60 -80	7732-18-5	None	None
1,3-Propanediol	<15	504-63-2	None	None
1-(2-Hydroxyethyl)-2-pyrrolidone	<10	3445-11-2	None	None
2-methyl-2H-isothiazol-3-one	0.01-0.02	2682-20-4	None	None
1-Methoxy-2-propanol	1 - 2	107-98-2	None	50 ppm [2012] TWA 100 ppm [2012] STEL
Cyan Pigment	2 - 5	Trade secret	None	None

•Magenta Ink

Name	%	CAS No.	OSHA PEL	ACGIH TLV
Water	60 -80	7732-18-5	None	None
1,3-Propanediol	<15	504-63-2	None	None
1-(2-Hydroxyethyl)-2-pyrrolidone	<10	3445-11-2	None	None
2-methyl-2H-isothiazol-3-one	0.01-0.02	2682-20-4	None	None
1-Methoxy-2-propanol	1-5	107-98-2	None	50 ppm [2012] TWA 100 ppm [2012] STEL
Magenta Pigment	3 - 6	Trade secret	None	None

•Yellow Ink

Name	%	CAS No.	OSHA PEL	ACGIH TLV
Water	60 -80	7732-18-5	None	None
1,3-Propanediol	<15	504-63-2	None	None
1-(2-Hydroxyethyl)-2-pyrrolidone	<10	3445-11-2	None	None

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1-Methoxy-2-propanol	1-2	107-98-2	None	50 ppm [2012] TWA 100 ppm [2012] STEL
2-Methoxy-1-propanol	0.2-0.4	1589-47-5	None	None
2-methyl-2H-isothiazol-3-one	0.01-0.02	2682-20-4	None	None
Yellow Pigment	2-5	Trade secret	None	None

4. First-aid measures

Description of first aid measures

- Inhalation : If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.
- Skin contact : Wash with soap and water. Should irritation occur, seek medical attention. Should irritation occur, seek medical attention.
- Eye contact : Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
- Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

- Inhalation : None under normal use.
- Skin contact : None under normal use.
- Eye contact : None under normal use. May cause slight irritation.
- Ingestion : None under normal use.
- Chronic Effects : None under normal use.

Indication of any immediate attention and special treatment needed

- : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
 No specific treatment.

5. Fire-fighting measures

- Flash point : None known.
- Auto-ignition temperature : None known.
- Flammable limits : None known.
- Extinguishing media
- Suitable media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable media : None known.
- Hazardous combustion products : carbon dioxide, carbon monoxide, nitrogen oxides, Oxides of sulfur, Phosphorus oxides.

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Special exposure hazards	: None known.
Special protective equipment for fire-fighters	: Fire fighters should wear full protective clothing, including self-contained breathing apparatus

6. Accidental release measures

Personal precautionary	: Wear latex, vinyl, or nitrile gloves to prevent staining of skin.
Environmental precautions	: Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways. Disposal is subject to national, state, regional, or provincial regulations
Procedure for cleaning/ Absorption	: Small spill : Absorb small spills with cloth or paper towels or other suitable material. Product waste and emptied containers should be disposed of in accordance with local waste regulations. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and storage

Handling	
Storage	: Keep from freezing. : Store in a cool, dry place. Store away from oxidizing material.

8. Exposure controls/personal protection

Engineering controls	: Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
Respiratory protection	: Not required.
Gloves	: Latex, PVC, neoprene, or nitrile gloves are recommended to prevent staining of skin.
Skin protection	: Not required.
Eyes	: Safety glasses with side shields.

9. Physical and chemical properties

Physical state	: Liquid.
Color	: Cyan : Magenta : Yellow
Odor	: Faint odor.
Odor threshold	: No data available
pH	: No data available
Melting Point	: No data available

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Freezing point	: No data available
Initial boiling point	: No data available
Boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability(solid/gas)	: No data available
Upper/lower flammability	: No data available
Explosive limits	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Specific Gravity	: Approximately 1.0
Solubility	: Miscible in water
Partition coefficient	: No data available
Auto ignition temp	: No data available
Viscosity	: No data available
Oxidizing properties	: No data available

10. Stability and reactivity

Reactivity	: None
Chemical stability	: Stable
Possibility of Hazardous	: None
Reactions	
Conditions to avoid	: None known.
Incompatible materials	: None known
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, unidentified organics.
Hazardous polymerization	: Will not occur.
Additional guidelines	: None.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-(2-hydroxyethyl)pyrrolidin-2-one	LD50 Oral	Rat	14430 mg/kg	-
1,3-Propanediol	LD50 Oral	Rat	15800 mg/kg	-

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1-Methoxy-2-propanol	LD50 Oral	Rat	2973 – 7986 mg/kg	
2-Methoxy-1-propanol	LD50 Oral	Rat	5710 mg/kg	-
	LD50 Dermal	Rabbit	5660 mg/kg	-

1-Methoxy-2-propanol : Acute Tox 4

Corrosion/irritation

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-(2-hydroxyethyl)pyrrolidin-2-one	Eyes - Mild irritant	Rabbit	-	100 milligrams	-

2-Methoxy-1-propanol : Skin Irrit. 2, Eye Dam. 1

Sensitization : No data available

2-methyl-2H-isothiazol-3-one : Skin Sensitization. 1A; H317: C ≥ 0,0015 % / M = 10 / M = 1

1-Methoxy-2-propanol : STOT Sensitization. 3 : C ≥ 1.0 %

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

2-Methoxy-1-propanol : Repr. 1B

Specific target organ toxicity –

single exposure

1-Methoxy-2-propanol : STOT Sensitization. 3 : C ≥ 1.0 %

2-Methoxy-1-propanol : STOT Sensitization. 3 : C ≥ 1.0 %

Specific target organ toxicity –

repeated exposure

Aspiration hazard : No data available

Other information : No data available

12. Ecological information

Ecotoxicity : No data available

Persistence and degradability : No data available

Bio accumulative potential : No data available

Mobility in soil : No data available

PBT and vPvB assessment : No data available

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Other information : Decomposition products may include the following materials:
carbon oxides (CO, CO₂). Some metallic oxides.

13. Disposal considerations

Waste disposal : This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.

14. Transport information

DOT

UN number or ID number : Not applicable
UN Proper shipping name : Not applicable
Transport hazard class(es) : Not applicable
Packing group : Not applicable
Marine pollutant : Not applicable
Product is not regulated for transport by ground in retail packaging per 49 CFR 171.4

IMDG

UN number or ID number : Not applicable
UN Proper shipping name : Not applicable
Transport hazard class(es) : Not applicable
Packing group : Not applicable
Marine pollutant : Not applicable
Product is not regulated for transport by vessel in retail packaging per IMDG 2.10.2.7.

IATA

UN number or ID number : Not applicable
UN Proper shipping name : Not applicable
Transport hazard class(es) : Not applicable
Packing group : Not applicable
Product is not regulated for transport by air in retail packaging per IATA Special Provision A197.
In retail packaging, this product is:
"Not Restricted, as per Special Provision A3" in reference to IATA DGR 8.2.6
"Not Restricted, as per Special Provision A197" in reference to IATA DGR 4.2 and 4.4

15. Regulatory information

United States

TSCA (USA) : All ingredients are listed on the Toxic Substances Control

Safety Data Sheet

	Act (TSCA) inventory, have been registered, or are exempt.
SARA / EPCRA (USA)	: None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302:Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.
California Proposition 65	: This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm – California Proposition 65.
International regulations lists	
EINECS (Europe)	: All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.
REACH Status	: EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
ENCS (Japan)	: All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.
AICS (Australia)	: All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.
Philippine Regulation	: All components of this product are registered in the Philippine Inventory of Chemicals and Chemical Substances (PICCS), and no component is listed in any of the following controlled substances list in the Philippines: Chemical Control Orders (CCO), Ozone Depleting Substance (ODS) or Alternative to ODS, Priority Chemical List (PCL), Controlled Precursor & Essential Chemical Substances (CPECS) and Controlled Chemicals & Explosives Ingredients (CCEI) as per Philippine Economic Zone Authority - Environmental Safety Group's Quicklist of Regulated Substances - ESG.1.M.001, Latest revision.
Korea inventory (KECI)	: All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.
China inventory (IECSC)	: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.
Canada	
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
DSL/NDSL	: All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.
Mexico Classification	: Health: 1 Flammability: 1 Reactivity: 0

16. Other information

Revision comments : No significant revisions to health and safety information.

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References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. -29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" – Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Safety Data Sheet

1. Product and company identification

Description : INK CARTRIDGE MONO
Part numbers : SJBDK1XXA
Recommended Use : Ink for Ink Jet Printer
Manufacturer : FUNAI ELECTRIC CO., LTD.
Address : 7-7-1, Nakagaito, Daito, Osaka 574-0013, Japan
Tel : +81-72-870-4459
Information about the product : Product Environmental Office
Fax : +81-72-870-5817
e-mail : funai_green@funai.co.jp
Emergency phone number : For Hazardous Materials Incident Spill, Leak, Fire, Exposure, or Accident
+1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. Hazards identification

Classification under OSHA HCS : Not classified
Label element
Hazard symbol : None
Signal word : None
Hazard statements : None
Precautionary statements : None
Other hazards which do not result in classification : None

3. Composition/information on ingredients

Substance/Mixture: Mixture

● Black ink

Name	%	CAS No.	OSHA PEL	ACGIH TLV
1,3-Propanediol	3 – 7	504-63-2	None	None
Carbon Black	1 – 5	1333-86-4	TWA : 3.5mg/m ³	TWA : 3mg/m ³ (inhalable particulate matter)
2-Methyl-4-isothiazolin-3-one	0.01-0.02	2682-20-4	None	None

4. First-aid measures

Description of first aid measures

Inhalation : If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.

Skin contact : Wash with soap and water. Should irritation occur, seek medical attention.
Should irritation occur, seek medical attention.

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- Eye contact : Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
- Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

- Inhalation : None under normal use.
- Skin contact : None under normal use.
- Eye contact : None under normal use. May cause slight irritation.
- Ingestion : None under normal use.
- Chronic Effects : None under normal use.

Indication of any immediate attention and special treatment needed

- : No specific antidote.

5. Fire-fighting measures

- Flash point : None known.
- Auto-ignition temperature : None known.
- Flammable limits : None known.
- Extinguishing media
- Suitable media : Carbon dioxide, water spray or fog, dry chemical or foam
 - Unsuitable media : None
- Hazardous combustion products : Carbon monoxide, carbon dioxide, unidentified organics
- Special exposure hazards : None known.
- Special protective equipment for fire-fighters : Fire fighters should wear full protective clothing, including self-contained breathing apparatus
- NFPA Rating : Health: 1 Flammability: 0 Reactivity: 0
- HMIS Classification : Health: 1* Flammability: 0 Reactivity: 0

6. Accidental release measures

- Personal precautionary : Wear latex, vinyl, or nitrile gloves to prevent staining of skin.
- Environmental precautions : Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways. Disposal is subject to national, state, regional, or provincial regulations
- Procedure for cleaning/
Absorption : Small spill : Absorb small spills with cloth or paper towels or other suitable material. Product waste and emptied containers should be disposed of in accordance with local waste regulations. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and storage

- Handling : Keep from freezing.

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Storage : Store in a cool, dry place. Store away from oxidizing material.

8. Exposure controls/personal protection

Engineering controls : Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
Respiratory protection : Not required.
Gloves : Latex, PVC, neoprene, or nitrile gloves are recommended to prevent staining of skin.
Skin protection : Not required.
Eyes : Safety glasses with side shields.

9. Physical and chemical properties

Physical state : Liquid.
Color : Black
Odor : Faint odor.
Odor threshold : No data available
pH : No data available
Melting Point : No data available
Freezing point : Approximately -8°C
Initial boiling point : No data available
Boiling range : Approximately 98.0°C
Flash point : No data available
Evaporation rate : No data available
Flammability(solid/gas) : No data available
Upper/lower flammability : No data available
Explosive limits : No data available
Vapor pressure : No data available
Vapor density : No data available
Specific Gravity : Approximately 1.0
Solubility : Miscible in water
Partition coefficient : No data available
Auto ignition temp : No data available
Viscosity : No data available
Oxidizing properties : No data available

10. Stability and reactivity

Reactivity : None

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Chemical stability	: Stable
Possibility of Hazardous Reactions	: None
Conditions to avoid	: None known.
Incompatible materials	: None known
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, unidentified organics.
Hazardous polymerization	: Will not occur.
Additional guidelines	: None.

11. Toxicological information

Information on toxicological effects

Acute toxicity oral rat LD50 : >5000
 (mg/kg)

Product/ingredient name	Result	Species	Dose	Exposure
1,3-Propanediol	LD50 Oral	Rat	15800 mg/kg	-
Carbon Black	LD50 Oral	Rat	15400 mg/kg	-
	LD50 Dermal	Rabbit	3 g/kg	-

Skin corrosion/irritation	: Not an irritant.
Serious eye damage/eye irritation	: Not an irritant. Not known significant effects or critical hazards.
Sensitization	
2-Methyl-4-isothiazolin-3-one	Skin Sensitization. 1A; H317: C ≥ 0,0015 % / M = 10 / M = 1
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Carbon Black	Carc H351 C ≥ 0.1 %
Reproductive toxicity	: No data available
Specific target organ toxicity – single exposure	: No data available
Specific target organ toxicity – repeated exposure	: No data available
Carbon Black	STOT RE. H372 : C ≥ 1.0 %
Aspiration hazard	: As with exposure to high concentrations of any mist, minimal irritation of the respiratory tract may occur. Not known significant effects or critical hazards.
Other information	
Carbon Black	IARC : 2B

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12. Ecological information

Ecotoxicity	: No data available
Persistence and degradability	: No data available
Bio accumulative potential	: No data available
Mobility in soil	: No data available
PBT and vPvB assessment	: No data available
Other information	: Decomposition products may include the following materials: carbon oxides (CO, CO ₂). Some metallic oxides.

13. Disposal considerations

Waste disposal	: This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.
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14. Transport information

UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable
Environmental hazards	: Not applicable
Special precautions	: Not applicable
Bulk transport Annex II of MARPOL 73/78 and IBC code	: Not applicable

15. Regulatory information

United States

TSCA (USA)	: All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.
SARA / EPCRA (USA)	: None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302:Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.
California Proposition 65	: This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm – California Proposition 65.

International regulations lists

EINECS (Europe)	: All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.
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REACH Status	: EU (REACH): All components of the ink formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
ENCS (Japan)	: All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.
AICS (Australia)	: All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.
Philippine Regulation	: All components of this product are registered in the Philippine Inventory of Chemicals and Chemical Substances (PICCS), and no component is listed in any of the following controlled substances list in the Philippines: Chemical Control Orders (CCO), Ozone Depleting Substance (ODS) or Alternative to ODS, Priority Chemical List (PCL), Controlled Precursor & Essential Chemical Substances (CPECS) and Controlled Chemicals & Explosives Ingredients (CCEI) as per Philippine Economic Zone Authority - Environmental Safety Group's Quicklist of Regulated Substances - ESG.1.M.001, Latest revision.
Korea inventory (KECI)	: All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.
China inventory (IECSC)	: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.
Canada	
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
DSL/NDSL	: All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.
Mexico Classification	: Health: 1 Flammability: 1 Reactivity: 0

16. Other information

Revision comments	: No significant revisions to health and safety information.
References	: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. -29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" – Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

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