Version 1.0. Date Issued: 08.11.18

According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name COPIC INK

1.2 Other means of identification

SDS number: CA-1771

1.3 Recommended use of the chemical and

restrictions on use

Recommended use(s) Drawing ink.

1.4 Details of the manufacturer or importer

Australian supplier/importer X-Press Graph-X Supplies Pty Ltd

PO Box 80 Moorabbin VIC 3189

Product Name: COPIC INK SDS Number: CA-1771

Telephone (03) 9585 4455 Fax (03) 9585 4453

Email <u>info@xpressgraphx.com.au</u>

Manufacturer Too Marker Products Inc.
Address 7-22-17 Nishi-Gotanda,
Shinagawa-ku, Tokyo

141-0031, JAPAN

Telephone +81-3-5719-2655

E-mail <u>tmp-inc@toomarker.co.jp</u>

1.5 Emergency phone number +81-3-5719-2655 (Available between 9:00~17:00, Monday

to Friday Japan Standard Time).

(Australia) Poisons Information Centre: 13 11 26

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

Flammable Liquids - Category 2 Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 1

Carcinogenicity - Category 1 Reproductive Toxicity - Category 1

Specific Target Organ Toxicity - Single Exposure - Category 2 (central nervous system, systemic toxicity) Specific Target Organ Toxicity - Single Exposure -

According to GHS (Revision 3) (2009): Specific Target Organ Toxicity - Single Exposure

Category 3

Specific Target Organ Toxicity - Repeated Exposure -

Category 1 (liver)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (central nervous system, hematopoietic

system)

Hazardous to the Aquatic Environment - Chronic -

Category 3

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2.1.1 Label elements

Hazard pictogram(s)

Signal word(s)

Hazard statement(s)

Precautionary statement(s)
Prevention

Response



Danger

H225: Highly flammable liquid and vapor.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H350: May cause cancer.

H360: May damage fertility or the unborn child.

H371: May cause damage to organs (central nervous system, systemic toxicity).

Product Name: COPIC INK SDS Number: CA-1771

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H372: Causes damage to organs (liver) through prolonged or repeated exposure.

H373: May cause damage to organs (central nervous system, hematopoietic system) through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

P201: Obtain special instructions before use.

P202: Do not handle until all safety and precautions have been read and understood.

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after use.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYESE: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinising.

P308 + P313: IF exposed or concered: Get medical advice/attention.

P310: Immediately call a POISON CENTRE or doctor/physician.

P314: Get medical advice/attention if you well unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P370 + P378: In case of fire: Use carbon dioxide, regular dry chemical, water spray, alcohol resistant foam for extinction.

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Storage P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal P501: Dispose of contents/container in accordance with

local/national/international regulations.

2.3 Other hazards which do not result in

classification

None known.

2.4 Additional information

17% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

Product Name: COPIC INK SDS Number: CA-1771

The GHS classification above is in relation to the COPIC INK and not the marker pen (COPIC marker).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical name	Weight%	CAS No.
Ethyl alcohol	75-85	64-17-5
n-Propanol	<10	71-23-8
Isopropyl alcohol	<5	67-63-0
2,6-Di-tert-butyl-p-cresol	1-3	128-37-0
Ethoxylated coconut oil alkyl amine	<1	61791-14-8

In accordance with Schedule 8 of the WHS Regulations the specific chemical identity of the composition has been withheld as a confidential and in addition the values provide are representative only.

SECTION 4: FIRST-AID MEASURES

4.1		Descript	tion of	necessary	/ first-a	id m	neasures
-----	--	----------	---------	-----------	-----------	------	----------

Inhalation Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTRE or doctor/physician.

Skin Contact Wash with plenty of soap and water. Take off contaminated

clothing and wash before reuse. If skin irritation occurs: Get

medical advice/attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get

immediate medical attention.

Ingestion Rinse mouth. Call a POISON CENTRE or doctor/physician if you

feel unwell.

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According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

4.2 Most important symptoms/effects, acute and delayed

Acute: skin irritation, eye damage, central nervous system damage, systemic toxicity damage, respiratory tract irritation, central nervous system depression

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Delayed: cancer, reproductive effects, liver damage, central nervous system damage, hematopoietic system damage

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment based on judgment of the doctor in response to symptoms of the patient.

4.4 Protection of first-aid providers

Wear protective gloves/protective clothing/eye protection/face protection. Respiratory protection may also be required in areas where ventilation is low or exposure to vapour/spray/mist is possible.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Carbon dioxide, regular dry chemical, water spray, alcohol

resistant foam.

Unsuitable Extinguishing Media

High pressure water spray.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Irritating and/or toxic fumes and gases such as oxides of carbon and other miscellaneous decomposition products may be emitted upon the product's decomposition.

The use of high pressure water spray may scatter the material and thus spread the fire.

5.3 Special protective equipment and precautions for fire fighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Move container from fire area if it can be done without risk. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective protection as described in 'Section 8'.

Only authorized personnel should enter the leak area, utilizing appropriate personal protective equipment.

Immediately extinguish sources of ignition in the spillage area. For large spills: Cordon-off the spillage area with rope etc. to prevent entry of unauthorized personnel.

Ensure adequate ventilation following completion of containment and clean-up operations.

Stay upwind and keep out of low areas.

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6.4

According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

6.2 Environmental precautions Avoid release to the environment. Prevent entry into waterways,

sewers, basements, or confined areas.

6.3 Methods and materials for containment and Stop leak if possible without personal risk. Reduce vapours with cleaning up water spray. Small spills: Absorb with sand or other non-

water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal.

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Reference to other sections For guidance on appropriate extinguishing media, see section 5.

For guidance on safe handling, see section 7

For guidance on personal protective equipment, see section 8

For guidance on safe disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Utilize local exhaust ventilation or ensure adequate ventilation in work areas, wear protective equipment as specified in section 8. Handle in accordance with good industrial hygiene and safety practices.

Obtain special instructions before use.

Do not handle until all safety and precautions have been read and understood.

understood.

Keep away from heat/sparks/open flames/hot surfaces - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools

Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after use.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Take off contaminated clothing and wash before reuse.

Contaminated clothing and equipment should not leave the work

area.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

Store away from acids, bases, combustible materials, halocarbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides.

Others are the second of inviting

Store away from sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Australian Hazardous Chemicals Information System (HCIS) and Work Health and Safety (WHS) Act/Regulations:

Ethyl alcohol 8 hour TWA 1000 ppm (1880 mg/m³)

n-Propanol 8 hour TWA 200 ppm (424 mg/m³), 15 minute STEL 250 ppm (614 mg/m³)

Isopropyl alcohol 8 hour TWA 400 ppm (983 mg/m³) 15 minute STEL 500 ppm (1230 mg/m³)

2,6-Di-tert-butyl-p-cresol 8 hour TWA 10 (mg/m³)

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According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

8.1.2 Biological monitoring

None established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

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Provide hand wash, safety shower and eye wash facilities near the workplace where the product is handled, and display those positions clearly.

8.2.2 Personal protection equipment

Eye/face protection Wear goggles, protective glasses with side shields or face mask.

In accordance with the standards, AS/NZS 1336 and AS/NZS

1337 on selection of eye protection.

Hand protection Chemical resistant protective gloves are recommended when

handling as described by standard, AS/NZS 2161 on

occupational protective gloves.

Respiratory protection Follow AS/NZS 1715 and AS/NZS 1716 on respiratory protective

devices. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Skin and body protection Protective work clothing with long sleeves/working pants. In

accordance with the standard AS/NZS 3765 on clothing.

Thermal hazards Wear appropriate air-respirator and chemical protective clothing

when engaged in fire-fighting. See "Section 5.3 Special protective

equipment and precautions for fire fighters".

Hygiene measures Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the

workplace.

Wash contaminated work clothing before reuse.

Handle in accordance with good industrial hygiene and safety

practices.

Do not eat, drink or smoke whilst using this product.

8.2.3 Environmental Exposure Controls

Follow best practice for site management and disposal of waste. Prevent entry into waterways, sewers, basements, or confined

areas.

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According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid.

Color Translucent.

Odor Slight alcohol odor.

Odor threshold (ppm) No data available.

pH (Value) No data available.

Melting point / freezing point -117 °C (Ethanol)

Initial boiling point and boiling range 79 °C (Ethanol)

Flash point (°C) 14.3 °C

Evaporation rate No data available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Lower explosive limit: 3.3 vol% (Ethanol)

Upper explosive limit: 19 vol% (Ethanol)

Vapor pressure 5.8 kPa (20 °C, Ethanol)

Vapor density (Air=1) 1.6 (Ethanol)

Relative Density No data available.

Solubility(ies) Miscible in water.

Partition coefficient (n-Octanol/water)

No data available.

Auto-ignition temperature No data available.

Decomposition temperature No data available.

Viscosity No data available.

Explosive properties No data available.

Oxidizing properties No data available.

9.2 Other information No other information.

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SECTION 10: STABILITY AND REACTIVITY			
10.1	Reactivity	No reactivity hazard is expected.	
10.2	Chemical stability	This product is considered stable under normal temperatures and pressures.	
10.3	Possibility of hazardous reactions	Product will not undergoing hazardous polymerization.	
10.4	Conditions to avoid	Highly flammable. Avoid flames, sparks, and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials.	
10.5	Incompatible materials	Acids, bases, combustible materials, halocarbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides.	

SECTION 11: TOXICOLOGICAL INFORMATION

Hazardous Decomposition Product(s)

11.1 Information on toxicological effects

Acute toxicity Classification criteria not met.

Oral:

10.6

Ethyl alcohol (64-17-5): LD50 Rat 7060 mg/kg n-Propanol (71-23-8): LD50 Rat 1870 mg/kg Isopropyl alcohol (67-63-0): LD50 Rat 1870 mg/kg

2,6-Di-tert-butyl-p-cresol (128-37-0): LD50 Rat >2930 mg/kg (aqueous dispersion at 10% w/v of arabic

Oxides of carbon, miscellaneous decomposition products

gum)

Ethoxylated coconut oil alkyl amine (61791-14-8):LD50 Rat 750 mg/kg

Dermal:

n-Propanol (71-23-8): LD50 Rat 1870 mg/kg Isopropyl alcohol (67-63-0): LD50 Rabbit 4059 mg/kg

2,6-Di-tert-butyl-p-cresol (128-37-0): LD50 Rat >2000 mg/kg (no deaths occurred)

Inhalation:

Ethyl alcohol (64-17-5): LC50 Rat 124.7 mg/L 4 h n-Propanol (71-23-8): LC50 Rat >13548 ppm 4 h lsopropyl alcohol (67-63-0): LC50 Rat 72600 mg/m³ 4 h

Skin corrosion/irritation Classified as Skin Irritation Category 2.

Causes skin irritation.

Serious eye damage/irritation Classified as Eye Damage Category 1.

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory: Classification criteria not met.

No data available.

Skin: Classification criteria not met.

No data available.

Germ cell mutagenicity Classification criteria not met.

No data available.

Carcinogenicity Classified as Carcinogenic Category 1.

IARC:

Ethyl alcohol: Monograph 100E [2012] (in alcoholic beverages); Monograph 96

[2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans)).

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Isopropyl alcohol: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]

(Group 3 (not classifiable)).

2,6-Di-tert-butyl-p- cresol: Supplement 7 [1987]; Monograph 40 [1986] (Group 3 (not

classifiable)).

DFG:

Ethyl alcohol: Category 5 (low carcinogenic potency)

2,6-Di-tert-butyl-p- cresol: Category 4 (no significant contribution to human cancer)

Reproductive toxicity Classified as Reproductive Toxicity Category 1.

Available data characterizes components of this product as

reproductive hazards.

STOT - single exposure Classified as STOT SE Category 2 (central nervous system, systemic

toxicity) and Category 3 (respiratory irritation and drowsiness and

Product Name: COPIC INK SDS Number: CA-1771

dizziness).

Central nervous system, systemic toxicity, respiratory tract.

STOT - repeated exposure Classified as STOT RE Category 1 (liver) and Category 2 (central

nervous system, hematopoietic system).

Liver, central nervous system, hematopoietic system.

Aspiration hazard Classification criteria not met.

Not expected to be an aspiration hazard.

Target Organs: Liver, central nervous system, hematopoietic system, systemic

toxicity, respiratory organs.

Information on the likely routes of

exposure: Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate): Respiratory tract irritation, drowsiness and dizziness.

Chronic (Delayed): No information available.

Skin

Acute (Immediate): Skin irritation.

Chronic (Delayed):No information available.

Eye

Acute (Immediate): Serious eye damage.
Chronic (Delayed): No information available.

Ingestion

Acute (Immediate):
Chronic (Delayed):
No information available.
No information available.

Interactive effects:No information available.

Acute toxicity estimates: Dermal: > 2000 mg/kg

Inhalation: Vapor > 20 mg/L Oral: > 2000 mg/kg

Other information: May cause cancer.

May damage fertility or the unborn child.

May cause damage to organs (central nervous system, systemic

toxicity).

Causes damage to organs (liver) through prolonged or repeated

exposure.

May cause damage to organs (central nervous system, hematopoietic

system) through prolonged or repeated exposure.

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SECTION 12: ECOL	OGICAL	INFORMATION
SECTION IZ. ECCL	.UGIUAL	

12.1 Toxicity Classified as Chronic Aquatic Toxicity Category 3.

Ethyl alcohol 64-17-5: LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static]; LC50 96 h

Pimephales promelas

>100 mg/L [static]; LC50 96 h Pimephales promelas 13400 - 15100

Product Name: COPIC INK SDS Number: CA-1771

mg/L [flow-through

n-Propanol 71-23-8: LC50 96 h Pimephales promelas 4480 mg/L [flow-through]

EC50 48 h Daphnia magna 3642 mg/L IUCLID; EC50 48 h Daphnia

magna 3339 - 3977 mg/L [Static] EPA

Isopropyl alcohol 67-63-0: LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96

h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis

macrochirus >1400000 µg/L

EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50

72 h Desmodesmus subspicatus >1000 mg/L IUCLID EC50 48 h Daphnia magna 13299 mg/L IUCLID

2,6-Di-tert-butyl- p-cresol 128-37-0: EC50 72 h Pseudokirchneriella subcapitata 6 mg/L IUCLID; EC50 72

h Desmodesmus subspicatus >0.42 mg/L IUCLID

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

SECTION 13: DISPOSAL CONSIDER ATIONS

13.1 Waste treatment methods

13.1.1 Residual wastesDispose of in accordance with national and local regulations.

13.1.2 Contaminated containers and

packaging

Dispose of soiled containers in accordance with national and local

regulations.

13.2 Additional information

Do not dump this product into sewers, on the ground or into any

body of water.

SECTION 14: TRANSPORT INFORMATION

14.1 l	JN number	UN 1987

14.2 UN Proper Shipping Name ALCOHOLS, N.O.S., (Contains: Ethyl alcohol and n-propanol)

14.3 Transport hazard class(es) 3
14.4 Packing Group

14.5 Environmental hazards Not applicable.14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

14.8 Hazchem (or Emergency Action) Code: Not applicable.

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According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

14.9 Additional information:

Marker pens (COPIC Marker) containing quantities of ≤ 10 mL of COPIC INK can be transported as non-hazardous goods without applying the criteria specified in subsections 14.1 to 14.8.

SECTION 15: REGULATORY INFORMATION

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

Montreal Protocol

(Ozone depleting substances): This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

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The Stockholm Convention (Persistent

Organic Pollutants):

None of the chemicals in this product are listed.

The Rotterdam Convention (Prior Informed

Consent): None of the chemicals in this product are listed. Basel Convention (Hazardous Waste): None of the chemicals in this product are listed.

This SDS is prepared in accordance with the Work Health and Safety Act and Regulation 330, Schedule 7.

Industrial Chemicals (Notification and Assessment) Act 1989 (Commonwealth), including listing on the Australian Inventory of Chemical Substances (AICS): All components are listed on AICS.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (Commonwealth) (as amended): Components are not listed.

SECTION 16: OTHER INFORMATION

Further information

Date of preparation of SDS: 08 November 2018

Version: 1.0 Revision: -

References:

SAFE WORK AUSTRALIA: PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS Code of Practice (2018)

SAFE WORK AUSTRALIA: WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS (2018)

The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (Rev. 3, 2009).

The Australian Inventory of Chemical Substances (AICS)

Supplier's data/information.

ABBREVIATIONS

DFG: Deutsche Forschungsgemeinschaft EC50: half maximal effective concentration

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

PBT: Persistent, bioaccumulative and toxic

STEL: Short term exposure limit STOT: Specific target organ toxicity TWA: Time weighted average

vPvB: Very persistent and very bioaccumulative

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According to "Preparation of Safety Data Sheets for Hazardous Chemicals" ACoP under section 274 of the Work Health and Safety Act and Regulation 330, Schedule 7.

Training advise: Please read the safety data sheet before handling the product.

OTHER INFORMATION

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.

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