Safety Data Sheet

Material Name: COPIC INK **SDS ID: CA-1773**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
COPIC INK
Product Use
Drawing ink
Restrictions on Use
None known.
Details of the supplier of the safety data sheet
Too Marker Products Inc.
7-22-17 Nishi-Gotanda,
Shinagawa-ku,Tokyo
141-0031,
JAPAN
Phone: +81-3-5719-2655
Emergency Phone #: +81-3-5719-2655
E-mail: tmp-inc@toomarker.co.jp

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 1
Skin Sensitization - Category 1A
Carcinogenicity - Category 1A
Reproductive Toxicity - Category 1A
Specific Target Organ Toxicity - Single Exposure - Category 1 (Central Nervous System , systemic toxicity)
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (liver , Hematopoietic System)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (Central Nervous System)
Hazardous to the Aquatic Environment - Acute - Category 3
Hazardous to the Aquatic Environment - Chronic - Category 3
GHS Label Elements
Symbol(s)

Signal Word
Danger
Hazard Statement(s)
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause cancer.

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May damage fertility or the unborn child.
Causes damage to organs.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep container tightly closed.
Keep away from heat/sparks/open flame/hot surfaces - No smoking.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Take precautionary measures against static discharge.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response

In case of fire: Use appropriate media to extinguish.
If exposed: Call a POISON CENTER or doctor/physician.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
Take off contaminated clothing and wash before reuse.
If skin irritation or rash occurs: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Statement(s) of Unknown Aquatic Toxicity

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64-17-5	Ethyl alcohol	75-85
71-23-8	n-Propanol	<10

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68333-69-7	Pentaerythritol ester of maleic anhydride adduct of rosin	3-7
67-63-0	Isopropyl alcohol	<5
128-37-0	2,6-Di-tert-butyl-p-cresol	<1
61791-14-8	Ethoxylated coconut oil alkyl amine	<1
Mixture	Dye	<10

Component Related Regulatory Information
The chemical identity and/or percentage of composition is being withheld as a trade secret.

Section 4 - FIRST AID MEASURES

Inhalation
Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin
Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion
Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Most Important Symptoms/Effects
Acute
skin irritation, eye damage, allergic skin reaction, central nervous system damage, systemic toxicity damage, respiratory tract irritation, central nervous system depression
Delayed
allergic skin reaction, cancer, reproductive effects, liver damage, central nervous system damage, hematopoietic system damage
Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
carbon dioxide, regular dry chemical, water spray, alcohol resistant foam
Unsuitable Extinguishing Media
Do not scatter spilled material with high-pressure water streams.
Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Hazardous Combustion Products
oxides of carbon, miscellaneous decomposition products
Fire Fighting Measures
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. 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

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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.

Special Protective Equipment and Precautions for Firefighters

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

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with 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. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Further information on storage conditions: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

Incompatible Materials

acids, bases, combustible materials, halocarbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Ethyl alcohol	**64-17-5**
ACGIH:	1000 ppm STEL
NIOSH:	1000 ppm TWA ; 1900 mg/m3 TWA
	3300 ppm IDLH (10% LEL)
OSHA (US):	1000 ppm TWA ; 1900 mg/m3 TWA
Mexico:	1000 ppm TWA VLE-PPT ; 1900 mg/m3 TWA VLE-PPT

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n-Propanol	**71-23-8**
ACGIH:	100 ppm TWA
NIOSH:	200 ppm TWA ; 500 mg/m3 TWA
	250 ppm STEL ; 625 mg/m3 STEL
	Potential for dermal absorption
	800 ppm IDLH
OSHA (US):	200 ppm TWA ; 500 mg/m3 TWA
Mexico:	200 ppm TWA VLE-PPT ; 500 mg/m3 TWA VLE-PPT
	250 ppm STEL [PPT-CT]; 625 mg/m3 STEL [PPT-CT]
	Skin - potential for cutaneous absorption
Isopropyl alcohol	**67-63-0**
ACGIH:	200 ppm TWA
	400 ppm STEL
NIOSH:	400 ppm TWA ; 980 mg/m3 TWA
	500 ppm STEL ; 1225 mg/m3 STEL
	2000 ppm IDLH (10% LEL)
OSHA (US):	400 ppm TWA ; 980 mg/m3 TWA
Mexico:	400 ppm TWA VLE-PPT ; 980 mg/m3 TWA VLE-PPT
	500 ppm STEL [PPT-CT]; 1225 mg/m3 STEL [PPT-CT]
2,6-Di-tert-butyl-p-cresol	**128-37-0**
ACGIH:	2 mg/m3 TWA inhalable fraction and vapor
NIOSH:	10 mg/m3 TWA
Mexico:	10 mg/m3 TWA VLE-PPT
	20 mg/m3 STEL [PPT-CT]

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
Isopropyl alcohol (67-63-0)
40 mg/l Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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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Individual Protection Measures, such as Personal Protective Equipment
Eye/face protection
Wear splash resistant safety goggles.
Skin Protection
Wear protective clothing to prevent contact.
Respiratory Protection
Consult with a health and safety professional for specific respirators appropriate for your use.
Glove Recommendations
Wear appropriate chemical resistant gloves.
Protective Materials
Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Translucent liquid	**Physical State**	liquid
Odor	slight alcohol odor	**Color**	translucent
Odor Threshold	Not available	**pH**	Not available
Melting Point	-117 °C (Ethanol)	**Boiling Point**	79 °C (Ethanol)
Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	Not available	**Flammability (solid, gas)**	Not available
Autoignition Temperature	Not available	**Flash Point**	14.3 °C
Lower Explosive Limit	3.3 vol% (Ethanol)	**Decomposition temperature**	Not available
Upper Explosive Limit	19 vol% (Ethanol)	**Vapor Pressure**	5.8 kPa (20 °C, Ethanol)
Vapor Density (air=1)	1.6 (Ethanol)	**Specific Gravity (water=1)**	Not available
Water Solubility	(Miscible with water)	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Kinematic viscosity**	Not available
Solubility (Other)	Not available	**Density**	Not available
Physical Form	liquid	**Molecular Weight**	Not available

Other Information
No additional information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.
Chemical Stability

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Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

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.

Incompatible Materials

acids, bases, combustible materials, halocarbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides

Hazardous decomposition products

oxides of carbon, miscellaneous decomposition products

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

irritation, drowsiness, dizziness, cancer, reproductive effects, organ damage

Skin Contact

irritation

Eye Contact

eye damage

Ingestion

irritation, drowsiness, dizziness

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg

Inhalation LC50 Rat 124.7 mg/L 4 h

n-Propanol (71-23-8)

Oral LD50 Rat 1870 mg/kg

Dermal LD50 Rabbit 4049 mg/kg

Inhalation LC50 Rat >13548 ppm 4 h

Isopropyl alcohol (67-63-0)

Oral LD50 Rat 1870 mg/kg

Dermal LD50 Rabbit 4059 mg/kg

Inhalation LC50 Rat 72600 mg/m3 4 h

2,6-Di-tert-butyl-p-cresol (128-37-0)

Oral LD50 Rat >2930 mg/kg (aqueous dispersion at 10% w/v of arabic gum)

Dermal LD50 Rat >2000 mg/kg (no deaths occurred)

Ethoxylated coconut oil alkyl amine (61791-14-8)

Oral LD50 Rat 750 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

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Immediate Effects
skin irritation, eye damage, central nervous system damage, systemic toxicity damage, respiratory tract irritation, central nervous system depression
Delayed Effects
cancer, reproductive effects, liver damage, central nervous system damage, hematopoietic system damage
Irritation/Corrosivity Data
skin irritation, eye damage
Respiratory Sensitization
No information available for the product.
Dermal Sensitization
May cause an allergic reaction.
Component Carcinogenicity

Ethyl alcohol	**64-17-5**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))
DFG:	Category 5 (low carcinogenic potency)
OSHA:	Present
n-Propanol	**71-23-8**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Isopropyl alcohol	**67-63-0**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Supplement 7 [1987] ; Monograph 15 [1977] (Group 3 (not classifiable))
2,6-Di-tert-butyl-p-cresol	**128-37-0**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Supplement 7 [1987] ; Monograph 40 [1986] (Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)

Germ Cell Mutagenicity
No information available for the product.
Tumorigenic Data
No information available for the product.
Reproductive Toxicity
Available data characterizes components of this product as reproductive hazards.
Specific Target Organ Toxicity - Single Exposure
central nervous system, systemic toxicity, respiratory tract
Specific Target Organ Toxicity - Repeated Exposure
liver, central nervous system, hematopoietic system

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Aspiration hazard
Not expected to be an aspiration hazard.
Medical Conditions Aggravated by Exposure
No data available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.
Component Analysis - Aquatic Toxicity

Ethyl alcohol	**64-17-5**
Fish:	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 mg/L [flow-through]
Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static] EPA
n-Propanol	**71-23-8**
Fish:	LC50 96 h Pimephales promelas 4480 mg/L [flow-through]
Invertebrate:	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**
Fish:	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
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID
2,6-Di-tert-butyl-p-cresol	**128-37-0**
Algae:	EC50 72 h Pseudokirchneriella subcapitata 6 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >0.42 mg/L IUCLID

Persistence and Degradability
No information available for the product.
Bioaccumulative Potential
No information available for the product.
Mobility
No information available for the product.
Other Toxicity
No information available for product.

Section 13 - DISPOSAL CONSIDERATIONS

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Disposal Methods
Dispose in accordance with all applicable regulations.
Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

Component Marine Pollutants (IMDG)
Not a marine pollutant.
IATA Information:
Shipping Name: ALCOHOLS, N.O.S. , (Contains: Ethanol , Propanol)
Hazard Class: 3
UN#: UN1987
Packing Group: II
Required Label(s): 3

ICAO Information:
Shipping Name: ALCOHOLS, N.O.S. , (Contains: Ethanol , Propanol)
Hazard Class: 3
UN#: UN1987
Packing Group: II
Required Label(s): 3

IMDG Information:
Shipping Name: ALCOHOLS, N.O.S. , (Contains: Ethanol , Propanol)
Hazard Class: 3
UN#: UN1987
Packing Group: II
Required Label(s): 3

US DOT Information:
Shipping Name: ALCOHOLS, N.O.S. , (Contains: Ethanol , Propanol)
Hazard Class: 3
UN/NA #: UN1987
Packing Group: II
Required Label(s): 3

TDG Information:
Shipping Name: ALCOHOLS, N.O.S. , (Contains: Ethanol , Propanol)
Hazard Class: 3
UN#: UN1987
Packing Group: II
Required Label(s): 3
International Bulk Chemical Code
This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

n-Propanol	**71-23-8**
IBC Code:	Category Y

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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Isopropyl alcohol	**67-63-0**
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

SARA Section 311/312 (40 CFR 370 Subparts B and C) \ reporting categories
Flammable; Carcinogenicity; Reproductive Toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Ethyl alcohol	**64-17-5**	Yes	Yes	Yes	Yes	Yes
n-Propanol	**71-23-8**	Yes	Yes	Yes	Yes	Yes
Isopropyl alcohol	**67-63-0**	Yes	Yes	Yes	Yes	Yes
2,6-Di-tert-butyl-p-cresol	**128-37-0**	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Ethyl alcohol	**64-17-5**
Carc:	carcinogen , 4/29/2011 (in alcoholic beverages)
Repro/Dev. Tox	developmental toxicity , 10/1/1987 (in alcoholic beverages)

Canada Regulations
Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Ethyl alcohol	**64-17-5**
	0.1 %
n-Propanol	**71-23-8**
	1 %

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Isopropyl alcohol	**67-63-0**
	1 %
2,6-Di-tert-butyl-p-cresol	**128-37-0**
	1 %

Component Analysis - Inventory
Ethyl alcohol (64-17-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

n-Propanol (71-23-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

Pentaerythritol ester of maleic anhydride adduct of rosin (68333-69-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

Isopropyl alcohol (67-63-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

2,6-Di-tert-butyl-p-cresol (128-37-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

Ethoxylated coconut oil alkyl amine (61791-14-8)

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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	No	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes

Dye (Mixture)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	No	No

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 3 Fire: 4 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes
New SDS: 26 July 2017

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit;

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UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

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.