

Safety Data Sheets

1. Identification

Product Name	: MH-100 ink Black
Order No.	: MH100-K-BA
General Use	: Ink for ink jet printer
Product Description	: UV curable ink
Restrictions on use	: This product is a bottle containing ink. Under normal conditions of use, the substance is released from a bottle only inside an appropriate printing system, and therefore, exposure is limited. But the liquid within the bottle is considered hazardous, and the SDS has been prepared in case of exposure to the liquid.
SDS Number	: 037- U141882
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd.
Address	: 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No.	: +81-268-64-2413
Importer / Distributor Established in USA	
Company Name	: MIMAKI USA, INC.
Address	: 150 Satellite Boulevard NE , suite A, Suwanee, Georgia 30024, U.S.A.
Telephone No.	: +1-678-730-0170
Emergency Telephone No.	: +81-268-64-2281

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Category 4

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 1

Sensitization – Skin : Category 1A

Carcinogenicity : Category 2

Toxic to Reproduction : Category 2

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Specific Target Organ Toxicity (Single Exposure) : Category 3
Specific Target Organ Toxicity (Repeated Exposure) : Category 2 (peripheral nervous system, kidneys, liver, blood)

Environmental Hazards

Hazardous to the Aquatic Environment - Acute Hazard : Category 2
Hazardous to the Aquatic Environment - Long Term Hazard : Category 2

The above list does not include category being non-classifiable or not-applicable.

[HCS Label Elements]

Symbol



Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure (peripheral nervous system, kidneys, liver, blood).
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

[Prevention]

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

[Response]

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P308+P313 IF exposed or concerned: Get medical advice/attention.
 P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P362+P364 Take off contaminated clothing and wash before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P330 Rinse mouth.
 P391 Collect spillage.

[Storage]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

Statement(s) of Unknown Acute Toxicity

Oral 27% of the mixture consists of ingredient(s) of unknown acute toxicity.

Statement(s) of Unknown Aquatic Toxicity

48% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.

48% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

Other Hazards

None known.

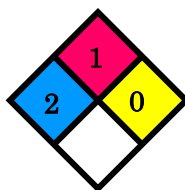
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special =



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Tripropylene glycol diacrylate	25-35	42978-66-5
2	2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	20-25	5888-33-5
3	Morpholine, 4-(1-oxo-2-propenyl)-	15-25	5117-12-4
4	Oligomer	15-25	Trade Secret
5	Diphenyl-2,4,6-trimethylbenzoyl phosphine	1-10	75980-60-8

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	oxide		
6	Carbon black	<1	1333-86-4

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

4. First Aid Measures

Inhalation	: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor/physician.
Eye Contact	: Flush eyes immediately with large amounts of water. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.
Skin Contact	: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.
Ingestion	: If swallowed, get medical attention. If vomiting occurs, keep head lower than hips to help prevent aspiration. Rinse mouth.
Most Important Symptoms/Effects	
Acute	: Harmful if swallowed, skin irritation, eye damage, allergic skin reaction, respiratory tract irritation.
Delayed	: allergic skin reaction, cancer, reproductive effects, peripheral nerve system damage, kidney damage, liver damage, blood disorders.
Indication of Immediate Medical Attention and Special Treatment Needed, If Needed	: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flammable Properties	: Flash Pont: >93 ° C
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	: Irritating fumes and gases may be released upon thermal processing or during combustion.

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Hazardous Combustion Products	: oxides of carbon, oxides of nitrogen.
Fire Fighting Measures	: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or combustion by-products.
Special Protective Equipment and Precautions for Firefighters	: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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	: Eliminate all ignition sources if safe to do so. 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.

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. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be
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	allowed out of the workplace.
Conditions for Safe	: Store in a well-ventilated place. Keep container tightly closed.
Storage, including any	Store locked up.
Incompatibilities	Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.
Incompatible Materials	: acids, bases, metals, oxidizing materials, metal oxides.

8. Exposure Controls / Personal Protection

This product is a bottle containing ink. Under normal conditions of use, the substance is released from a bottle only inside an appropriate printing system, and therefore, exposure is limited. But the liquid within the bottle is considered hazardous.

Please prepare the following protective equipment in case of handling damaged bottle, setting an ink bottle to the printer, handling a waste bottle and being exposed to liquid.

Exposure Limit Values	: Carbon black (1333-86-4) ACGIH: 3 mg/m ³ TWA inhalable particulate matter NIOSH: 3.5 mg/m ³ TWA ; 0.1 mg/m ³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons) asPAH 1750 mg/m ³ IDLH OSHA (US): 3.5 mg/m ³ TWA Mexico: 3.5 mg/m ³ TWA VLE-PPT 7 mg/m ³ STEL [PPT-CT]
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ACGIH - Threshold Limit Values	: Biological Exposure Indices (BEI) There are no biological limit values for any of this product's components.
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Exposure Controls

Occupational Exposure Controls

Appropriate	: Provide local exhaust or process enclosure ventilation system.
Engineering Controls	Ensure adequate ventilation.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection	: Wear the respirator against toxic gas. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Respiratory protection approved by NIOSH - Category 19C Type C supplied-air respirator operated in pressure demand
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Glove

Recommendations



Gloves

Eye /Face
Protection



Safety
Glasses

Skin Protection



Protective
Apron

Appropriate

sanitary requirement

Protective

Materials

Environmental Exposure Controls

- Category 21C
air-purifying respirator equipped
- Category 23C
air-purifying respirator equipped
- : Gloves and other dermal protection may not be used for a time period longer than they are actually tested and must be replaced at the end of each work shift.
- Safety 4/4H EVOH/PE laminate
- Ansell Edmont Neoprene number 865
- Solvex Nitrile Rubber number 275
- : Chemical goggles or equivalent eye protection.
Tightly fitting safety goggles.
It is recommended to install an eyewash station near the printer, for emergency use.
- : Full body chemical protective clothing. Clothing which covers any other exposed areas of the arms, legs, and torso.
Wear appropriate protective gloves and clothing to prevent skin exposure.
- : A cartridge used for a respirator must be renewed either regularly or appropriately corresponding to breakthrough time of use.
- : Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
- : This product contains the substance which is regulated to release to water under SNUR.

9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: clear , black
Odor		: peculiar odor
pH		: Not available
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available

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Flash Point	: >93 °C
Auto ignition temperature	: Not available
Flammability (Solid, Gas)	: Not available
Explosive Properties	: Not available
Oxidizing Properties	: Not available
Upper / Lower Flammability or Explosive Limits	: Not available
Vapor Pressure	: Not available
Specific Gravity (water=1)	: 1.07 (25 °C)
Water Solubility	: Not available
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	: 62 ±3 mPa · s (25 ° C)
Vapor Density	: Not available
Evaporation Rate	: Not available

10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous Reactions	: Will not polymerize.
Conditions to Avoid	: Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials	: acids, bases, metals, oxidizing materials, metal oxides.
Hazardous Decomposition	: oxides of carbon, oxides of nitrogen.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation	: irritation, organ damage.
Ingestion	: harmful if swallowed, irritation, organ damage
Skin Contact	: irritation, allergic skin reaction.
Eye Contact	: eye damage.

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Acute and Chronic Toxicity

Component Analysis - : The components of this material have been reviewed in various
LD50/LC50 sources and the following selected endpoints are published.

Trippropylene glycol diacrylate (42978-66-5)

Oral LD50 Rat 6200 mg/kg

Dermal LD50 Rabbit >2 g/kg

**2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-
(5888-33-5)**

Oral LD50 Rat 4890 mg/kg

Carbon black (1333-86-4)

Oral LD50 Rat >15400 mg/kg

Product Toxicity Data - Acute Toxicity Estimate

Dermal > 2000 mg/kg

Oral: 1629 mg/kg

Immediate Effects : Harmful if swallowed, skin irritation, eye damage, allergic skin
reaction, respiratory tract irritation.

Delayed Effects : allergic skin reaction, cancer, reproductive effects, peripheral nerve
system damage, kidney damage, liver damage, blood disorders.

Irritation/Corrosivity : skin irritation, eye damage, respiratory tract irritation
Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : May cause an allergic skin reaction.

Germ Cell : No information available for the product.

Mutagenicity

Tumorigenic Data : No information available for the product.

Carcinogenicity : No information available for the product.

: Component Carcinogenicity

Carbon black (1333-86-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown

Relevance to Humans

IARC: Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B

(possibly carcinogenic to humans))

DFG: Category 3B (could be carcinogenic for man ;inhalable fraction)

OSHA: Present

NIOSH: potential occupational carcinogen

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Reproductive Toxicity : Available data characterizes components of this product as reproductive hazards.

Specific Target Organ : respiratory tract.

Toxicity - Single

Exposure

Specific Target Organ : peripheral nervous system, kidneys, liver, blood.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.

Medical Conditions : No information available for the product.

Aggravated by Exposure

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Ecotoxicity : Toxic to aquatic life with long lasting effects.

Component Analysis - : **Tripropylene glycol diacrylate (42978-66-5)**

Aquatic Toxicity Algae: EC50 72 h *Desmodesmus subspicatus* >28 mg/L IUCLID

Invertebrate: EC50 48 h *Daphnia magna* 88.7 mg/L IUCLID

Persistence and : No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

Mobility : No information available for the product.

Other Toxicity : No information available for the product.

13. Disposal Considerations

Disposal Methods : Comply with all USA, national and local regulations.

: Wear the appropriate protective equipment during disposal.

: Fully cured printed matter can be disposed of as ordinary office trash.

However, disposal of liquid and uncured waste, cleaning cloths, gloves, and empty material containers must be done in accordance with local laws and regulations. They are classified as hazardous industrial waste.

: When this product is subjected to incineration, it must be done in

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accordance with the standard for disposing Industrial Waste.

: Use industrial waste disposal companies who is authorized by local municipal government for the disposal.

Do not dump this product into sewers, on the ground or into any body of water.

Component Waste Numbers
 Disposal of Contaminated Packaging
 : The U.S. EPA has not published waste numbers for this product's components.
 : Empty containers may contain product residue. Dispose in accordance with all applicable regulations.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Component Marine Pollutants (IMDG)
 : Not a marine pollutant.

IATA Information
 : **Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Contains: Tripropylene glycol diacrylate , 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-)

Hazard Class: 9

UN#: UN3082

Packing Group: III

Required Label(s): 9

Marine pollutant

ICAO Information
 : **Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Contains: Tripropylene glycol diacrylate , 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-)

Hazard Class: 9

UN#: UN3082

Packing Group: III

Required Label(s): 9

Marine pollutant

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IMDG Information	: Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Contains: Tripropylene glycol diacrylate , 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-) Hazard Class: 9 UN#: UN3082 Packing Group: III Required Label(s): 9 Marine pollutant
US DOT Information	: Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Contains: Tripropylene glycol diacrylate , 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-) Hazard Class: 9 UN/NA #: UN3082 Packing Group: III Required Label(s): 9 Marine pollutant
International Bulk Chemical Code	: This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.
Remarks	: Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations. Refer to ICAO/IATAA197, IMDG 2.10.2.7, ADR SP 375.

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. Morpholine, 4-(1-oxo-2-propenyl)-5117-12-4 TSCA 12b: Section 5 , 1 % de minimus concentration EPA: P-95-0169
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SARA Section 311/312 : Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin
 (40 CFR 370 Subparts B and C) reporting categories : 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
Carbon black	1333-86-4	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).

California Proposition 65 : **WARNING**



This product can expose you to chemicals including Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Carbon black, Chrysene, Dibenz[a,h]anthracene, Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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.

Carbon black (1333-86-4) - 1 %

Component Analysis – Inventory

Tripropylene glycol diacrylate (42978-66-5)

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

2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (5888-33-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW



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Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
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Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)

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	NSL	ELN	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes

Oligomer (Trade Secret)

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

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

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

Carbon black (1333-86-4)

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

16. Other Information

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

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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; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN NCI (Draft) - Vietnam National Chemicals Inventory (NCD) (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada). .

Disclaimer

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

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