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# **SECTION 1: Identification**

**Product identifier** 

**Material Name** 

Uvink LUS-150 Light Magenta

**Product Description** 

LUS15-LM-BA

**Product Use** 

INK JET ink

**Restrictions on Use** 

None known.

Details of the supplier of the safety data sheet

Mimaki Engineering Co., Ltd

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan

Phone: +81-268-64-2413

**Importer / Distributor Information** 

MIMAKI SINGAPORE PTE. LTD.

31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone number: +65-6508-2789

# **Emergency telephone number**

+65 3165 2217 (within Singapore only)

+65 3158 1074

# **SECTION 2: Hazards identification**

# Singapore Standard SS 586-2:2014

Acute Toxicity - Oral - Category 4 (69.51% unknown)

Acute Toxicity - Dermal - Category 4 (80.76% unknown)

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2

Skin Sensitization - Category 1

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (liver, respiratory system)

Hazardous to the Aquatic Environment - Chronic - Category 2

#### Label elements

#### **Hazard symbols**







## Signal word

Danger

#### **Hazard statements**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.



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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/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

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

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P312 Call a POISON CENTER or doctor if you feel unwell.

P391 Collect spillage.

#### Storage

P405 Store locked up.

#### **Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Statement(s) of Unknown Acute Toxicity

Dermal 80.76% of the mixture consists of ingredient(s) of unknown acute toxicity.

69.51% of the mixture consists of ingredient(s) of unknown acute toxicity. Oral

#### Statement(s) of Unknown Aquatic Toxicity

26.2% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

### Other Hazards Which Do Not Result in Classification

None known.

# **SECTION 3: Composition / information on ingredients**

CAS	Component Name	Percent
66492-51-1	2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	10-30
48145-04-6	2-Propenoic acid, 2-phenoxyethyl ester	10-30
2235-00-9	2H-Azepin-2-one, 1-ethenylhexahydro-	10-30

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5888-33-5	Isobornyl acrylate	10-30
75980-60-8	Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	5-10
Proprietary	Proprietary multifunctional acrylate	1-5
162881-26-7	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5
122-99-6	2-Phenoxyethanol	<1
15625-89-5	Trimethylolpropane triacrylate	<1
42978-66-5	Tripropylene glycol diacrylate	<1

Impurities and stabilizing additives contributing to the GHS Classification None

# SECTION 4: First aid measures

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

#### Skin contact

Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: Get medical advice/attention.

#### Eve contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

# Ingestion

If swallowed, get medical attention.

## **Most Important Symptoms/Effects**

#### Acute

Harmful if swallowed. Harmful in contact with skin. skin irritation, eye irritation, allergic skin reaction

#### Delayed

reproductive effects, liver damage, respiratory system damage

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

# **SECTION 5: Firefighting measures**

### 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**

Negligible fire hazard.

#### **Hazardous combustion products**

oxides of carbon, oxides of phosphorus, oxides of nitrogen, oxides of sulfur

#### **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. For fires in cargo or storage area: 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



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precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

# **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.

## **Environmental precautions**

Avoid release to the environment.

#### 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.

# **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. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Avoid breathing vapor or mist. 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.

# Conditions for safe storage, including any incompatibilities

Store locked up.

Further information on storage conditions: Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Grounding and bonding required. Keep separated from incompatible substances.

#### **Incompatible Materials**

oxidizing materials, acids, bases

### **SECTION 8: Exposure controls/personal protection**

### **Exposure Guidelines**

#### **Component Exposure Limits**

Singapore and ACGIH have not developed exposure limits for any of this product's components.

### Biological limit value

There are no biological limit values for any of this product's components.

# **Engineering controls**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system.

### PERSONAL PROTECTIVE EQUIPMENT

#### **Eye/face protection**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Protective Clothing**

Wear appropriate chemical resistant clothing.

#### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

#### **Respiratory Protection**



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Consult with a health and safety professional for specific respirators appropriate for your use.

# **SECTION 9: Physical and chemical properties**

Appearance	magenta liquid	Physical State	liquid
Odor	chemical odor	Color	magenta
Odor Threshold	Not available	рН	Not available
Melting Point	Not available	Boiling Point	111 °C
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not self-igniting	Flash Point	Not applicable
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	Poorly soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	1.08 g/cm3
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**

Stable under normal conditions of use.

### Possibility of hazardous reactions

Will not polymerize.

### Conditions to avoid

Avoid flames, sparks, and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials.

### Materials to Avoid (Incompatibilities)

oxidizing materials, acids, bases

### Hazardous decomposition products

oxides of carbon, oxides of phosphorus, oxides of nitrogen, oxides of sulfur

# **SECTION 11: Toxicological information**



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#### **Information on Likely Routes of Exposure**

#### **Inhalation:**

No information on significant adverse effects.

#### Skin contact

Harmful in contact with skin. skin irritation, allergic skin reaction

#### **Eye contact**

eye irritation

#### **Ingestion**

Harmful if swallowed, nausea, vomiting, stomach pain

### Component Analysis - LD50/LC50

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

# 2-Propenoic acid, 2-phenoxyethyl ester (48145-04-6)

Oral LD50 Rat 4660 µL/kg

#### Isobornyl acrylate (5888-33-5)

Oral LD50 Rat 4890 mg/kg

#### **2-Phenoxyethanol** (122-99-6)

Oral LD50 Rat 1260 mg/kg

Dermal LD50 Rabbit 5 mL/kg

### Trimethylolpropane triacrylate (15625-89-5)

Dermal LD50 Rabbit 5000 mg/kg

#### Tripropylene glycol diacrylate (42978-66-5)

Oral LD50 Rat 6200 mg/kg

Dermal LD50 Rabbit >2 g/kg

### **Acute Toxicity Estimate**

Dermal	1221.9399 mg/kg
Oral	860.6742 mg/kg

#### **Immediate Effects**

Harmful if swallowed. Harmful in contact with skin. skin irritation, eye irritation, allergic skin reaction

#### **Delayed Effects**

reproductive effects, liver damage, respiratory system damage

# Irritation/Corrosivity Data

skin irritation, eye irritation

#### **Respiratory Sensitization**

No information available for the product.

#### **Dermal Sensitization**

May cause an allergic skin reaction.

# Carcinogenicity

# **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

#### **Mutagenic Data**

No information available for the product.

#### **Reproductive Effects Data**

Available data characterizes components of this product as reproductive hazards.

### **Tumorigenic Data**

No information available for the product.

### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

### Specific Target Organ Toxicity - Repeated Exposure



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liver damage, respiratory system damage

### **Aspiration hazard**

No information available for the product.

# **Medical Conditions Aggravated by Exposure**

No information available for the product.

# **SECTION 12: Ecological information**

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

### **Component Analysis - Aquatic Toxicity**

2-Phenoxyethanol	122-99-6						
Fish:	LC50 96 h Pimephales promelas 337 - 352 mg/L [flow-through]; LC50 96 h Pimephales promelas 366 mg/L [static]						
Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID						
Invertebrate:	EC50 48 h Daphnia magna >500 mg/L IUCLID						
Tripropylene glycol diacrylate	42978-66-5						
Algae:	EC50 72 h Desmodesmus subspicatus >28 mg/L IUCLID						
Invertebrate:	EC50 48 h Daphnia magna 88.7 mg/L IUCLID						

#### **Persistence**

No information available for the product.

### **Bioaccumulative potential**

No information available for the product.

### **Mobility**

No information available for the product.

#### Other adverse effects

No additional information is available.

# **SECTION 13: Disposal considerations**

### **Disposal Methods**

Dispose in accordance with all applicable regulations.

### **Component waste information**

There is no applicable waste information for this product's components.

#### Contaminated packaging disposal

Empty containers may contain product residue. Dispose in accordance with all applicable regulations.

# **SECTION 14: Transport information**

IATA Information:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains:

Tripropylene glycol diacrylate )

Hazard Class: 9 UN#: UN3082



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Packing Group: III Required Label(s): 9 Special Provision: A197 \*1

ICAO Information:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains:

Tripropylene glycol diacrylate )

Hazard Class: 9 UN#: UN3082 Packing Group: III Required Label(s): 9

IMDG Information:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains:

Tripropylene glycol diacrylate )

Hazard Class: 9 UN#: UN3082 Packing Group: III Required Label(s): 9

Special Provision: 2.10.2.7 \*1

# **Component Marine Pollutants (IMDG)**

Not a marine pollutant.

#### **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.

2-Phenoxyethanol	122-99-6
IBC Code:	Category Z

### **Special precautions**

No additional information is available.

\*1 Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations -- see UN Special Provision.

### **SECTION 15: Regulatory information**

#### **Singapore Regulations**

#### **List of Hazardous Substances**

No information was found for the substance(s) on the List of Hazardous Substances.

#### **Poisons List**

No information was found for the substance(s) on the List of Hazardous Substances.

### **Hazardous Substance Transport Quantities**

None of this product's components are on the list.

### **Maritime and Port Authority**

This product contains no components identified on Singapore's Maritime and Port Authority - Dangerous Goods.

# **Arms and Explosives Act**

None of this product's components are on the list.

#### **Schedule of Chemical Weapons**

None of this product's components are on the list.

Misuse of Drugs Act



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None of this product's components are on the list.

### **Petroleum and Flammable Materials**

This product contains no components identified on Singapore's Petroleum and Flammable Materials.

#### **Strategic Goods Control**

This product contains no components identified on Singapore's Strategic Goods Control.

### **Toxic Industrial Wastes**

This product contains no components identified on Singapore's Toxic Industrial Wastes.

### **Component Analysis - Inventory**

### 2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester (66492-51-1)

US	CA	EU	AU	РН		JP - ISHL			KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	No	Yes

## 2-Propenoic acid, 2-phenoxyethyl ester (48145-04-6)

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

# 2H-Azepin-2-one, 1-ethenylhexahydro- (2235-00-9)

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

### Isobornyl acrylate (5888-33-5)

US	CA	EU	AU	РН		JP - ISHL		KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	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	РН		JP - ISHL		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

### **Proprietary multifunctional acrylate (Proprietary)**



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US	CA	EU	AU	РН		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						

### Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- (162881-26-7)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KECI -		KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	ELN	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes

#### **2-Phenoxyethanol** (122-99-6)

US	CA	EU	AU	РН		JP - ISHL		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

#### Trimethylolpropane triacrylate (15625-89-5)

US	CA	EU	AU	РН		JP - ISHL		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

#### Tripropylene glycol diacrylate (42978-66-5)

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

# **SECTION 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; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; 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



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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<sup>TM</sup> -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); 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.

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