

# Safety Data Sheets

## 1. Identification

Product Name : LUS-150 Light Magenta  
Order No. : LUS15-LM-BA  
Ink Ver. : 1  
General Use : Ink jet printing ink  
Product Description : UV Inkjet Ink  
SDS Number : 037-U080301  
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, suite A, Suwanee, Georgia 30024, U.S.A.  
Telephone No. : +1-678-730-0100  
Emergency Telephone No. : +81-268-64-2281

## 2. Hazards Identification

### Emergency Overview

#### CAUTION!

Avoid contact with skin and eyes

May be harmful if swallowed or if inhaled

Irritating to eyes and skin

Irritating to respiratory system

May cause allergic skin reaction

Harmful in contact with skin

Appearance	: Light Magenta
Physical State @20°C	: liquid
Odor	: Acrylates

### Potential Health Effects

Inhalation : May be harmful if inhaled. May cause irritation of respiratory tract.

Eye Contact : Irritating to eyes.

Skin Contact : May be harmful in contact with skin. Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible

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	persons.
Ingestion	: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Principle Routes of Exposure	: Eye contact, Skin contact, Inhalation.
Chronic toxicity	: Experiments have shown reproductive toxicity effects on laboratory animals. May adversely affect liver and kidney.
Interactions with Other Chemicals	: Irritants. Sensitizers. Epoxies.
Environmental hazard	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.
Aggravated Medical conditions	: Allergies. Skin disorders. Respiratory disorders. Preexisting eye disorders.

### HMIS Rating (scale 0 – 4)

Health = 2\*

Flammability = 1

Reactivity = 1

Protective Equipment = B

②	Health
①	Flammability
①	Reactivity
Ⓑ	Protective Equipment

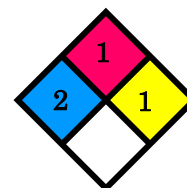
### NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 1

Special =



### CANADIAN WHMIS SYMBOLS



WHMIS Statement	: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.
WHMIS Hazard Class	: D2B Toxic materials

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### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Trimethylolpropane formalacrylate	30-50%	66492-51-1
2	N-vinylcaprolactam	10-20%	2235-00-9
3	Isobornyl acrylate ester	10-20%	5888-33-5
4	2-Phenoxyethyl acrylate	10-20%	48145-04-6
5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1-5%	162881-26-7
6	Ethylene glycol phenyl ether	1-5%	122-99-6
7	Acrylated resin	1-5%	Trade Secret
8	2,4,6-Trimethylbenzoyl diphenyl Phosphine Oxide	1-5%	75980-60-8
9	Tripropylene glycol diacrylate	0.5-1.5%	42978-66-5

### 4. First Aid Measures

General advice	: Do not get in eyes, on skin, or on clothing.
Inhalation	: Move to fresh air. If symptoms persist, call a physician.
Eye Contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
Note To Physician	: May cause sensitization of susceptible persons. Treat symptomatically.

### 5. Fire Fighting Measures

Flammable Properties	: Not flammable.
Flash point	: > 201 °F
Extinguishing Media	: Use CO2, dry chemical, or foam.
Unsuitable Extinguishing Media	: Do not use a solid water stream as it may scatter and spread fire.

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Hazardous Combustion : Nitrogen oxides (NO<sub>x</sub>). Carbon oxides.

Products

Sensitivity to Mechanical : none

Impact

Sensitivity to Static : none

Discharge

Specific hazards arising from the chemical : Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Protective Equipment and Precautions for Firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

\*Indicates a chronic health hazard.

### 6. Accidental Release Measures

Personal Precautions : Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Environmental precautions : Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Containment : Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

### 7. Handling and Storage

Advice on safe handling and storage : Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Technical measures/Storage conditions : Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight.

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## 8. Exposure Controls / Personal Protection

Exposure Limit Values : This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Exposure Controls

#### Occupational Exposure Controls

Engineering Measures : Ventilation systems

#### Personal Protection

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.



Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin Protection : Wear gloves that resist chemicals.



Eye Protection : Safety glasses with side-shields.



Skin Protection : To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.



Hygiene measures : When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

### Environmental Exposure Controls

: Not available



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### 9. Physical and Chemical Properties

Appearance	- Physical state	: liquid@20°C
	- Color	: Light Magenta
Odor		: Acrylates
pH		: Not available
Boiling Point / Boiling Range		: 232 °F
Melting Point / Melting Range		: Not available
Flash Point		: > 201 °F
Auto ignition temperature		: Not available
Flammability(solid, gas)		: Not available
Explosive Properties		: Not available
Oxidizing Properties		: Not available
Vapor Pressure		: <1 mm/Hg @ 20 C
Specific Gravity		: ~ 1.08
Water solubility		: Immiscible in water
Partition Coefficient(n-octanol / water)		: Not available
Vapor density		: Heavier than air
Evaporation Rate		: Not available
Molecular Weight		: Not available
Weight per Gallon (lbs)		: ~9.0
Viscosity, dynamic		: Not available
Actual VOC (lb/gal)		: 0.27
VOC (lb/gal)		: Not available
VOC (g/l)		: Not available
VOC Content California		
VOC Content of Material		: <33 grams per liter
VOC Content of Coating less Water and Exempt Solvents		: <33 grams per liter

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### 10. Stability and Reactivity

Conditions To Avoid	: Extremes of temperature and direct sunlight.
Stability	: Stable under recommended storage conditions.
Incompatible Materials	: Strong oxidizing agents, strong acids, and strong bases.
Hazardous Reactions/	: Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
Decomposition Products	
Hazardous	: Hazardous polymerization may occur.
Polymerization	

### 11. Toxicological Information

Eye Irritation	: Irritating to eyes.
Skin Irritation	: May be harmful in contact with skin. Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	: May be harmful if inhaled. May cause irritation of respiratory tract.
Sensitization	: None known.
Mutagenicity	: None known.
Teratogenicity	: None known.
Carcinogenicity	: None known.
Reproductive And Developmental Toxicity	: None known.
Chronic Toxicity	: Experiments have shown reproductive toxicity effects on laboratory animals. May adversely affect liver and kidney.
Target Organ Effects	: Eyes, Lymphatic System, Respiratory system.
Component Information	

Chemical Name	LD50 Oral ( Rat )	LD50 Dermal ( Rabbit )
Ethylene glycol phenyl ether	1260 mg/kg	5 mL/kg
Tripropylene glycol diacrylate	3000 mg/kg	2 g/kg

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## 12. Ecological Information

Ecotoxicity : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Algae toxicity	Toxic to fish	Toxicity to daphnia and other aquatic invertebrates
Ethylene glycol phenyl ether		Pimephales promelas: 337–352mg/L at 96h Pimephales promelas: 366mg/L at 96h	

Chemical Name	Octanol Water Partition Coefficient (log pow)
Ethylene glycol phenyl ether	1.13
Tripropylene glycol diacrylate	2.77

## 13. Disposal Considerations

Waste Disposal Methods : Dispose of in accordance with all applicable national environmental laws and regulations, Dispose of in accordance with federal, state, and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

Contaminated packaging : Do not re-use empty containers.

## 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

DOT : Not regulated.

TDG : Not regulated.

MEX : Not regulated.

ICAO

Class : 9





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Packing Group(PG) : III  
UN Number : 3082  
Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s

### IATA

Class : 9  
Packing Group(PG) : III  
UN Number : 3082  
Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s

### IMDG

Class : 9  
Packing Group(PG) : III  
UN Number : 3082  
Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s  
Marine Pollutant : Yes

### ADR/RID

Class : 9  
Packing Group(PG) : III  
UN Number : 3082  
Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s

ADN : Not regulated.

## 15. Regulatory Information

Chemical Name	TSCA	TSCA-S ection 5	TSCA- Section 4	TSCA 12(b)	DSL	NDSL	EINEC S	ELINC S	ENCS	IECSC	KECL	AICS
Trimethylolpropane formalacrylate	×				×		×			×		×
N-vinylcaprolactam	×				×		×		×	×	×	×
Isobornyl acrylate ester	×				×		×		×	×	×	×
2-Phenoxyethyl acrylate	×				×		×		×	×	×	×
phenyl bis(2,4,6-trimethylbenz oyl)-phosphine oxide	×				×			×	×	×	×	×
Ethylene glycol phenyl ether	×				×		×		×	×	×	×
2,4,6-Trimethylbenzoyl diphenyl Phosphine Oxide	×				×		×		×	×	×	×
Tripropylene glycol diacrylate	×				×		×		×	×	×	×

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ROHS	: Formulated to comply
ASTM F-963	: Formulated to comply
EN-71	: Formulated to comply
CHPA	: Formulated to comply
CONEG	: Formulated to comply
REACH/SVHC	: Formulated to comply
CPSIA	: Formulated to comply

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**ROHS** - Restriction of Hazardous Substances in Electrical and Electronic Equipment (EU)

**ASTM F-963** - Standard Consumer Safety Specification for Toy Safety (US)

**EN-71** - Soluble Heavy Metals Toy Standard (EU)

**CHPA** Canadian Hazardous Product Act Heavy Metals (CA)

**CONEG** - Coalition of Northeast Governors Model Toxics in Packaging Legislation (US)

**REACH/SVHC** - Registration, Evaluation, Authorization of Chemicals - Substances of Very High Concern (EU)

**CPSIA** - Consumer Product Safety Improvement Act (US)



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CERCLA

Reportable Quantity  
(40 CFR 117, 302)

: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA Title III

Section 311/312  
(40 CFR 370)

:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	Yes

Section 313

(40 CFR 372)

: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	Threshold Values %
2-Phenoxyethyl acrylate	1.0
Ethylene glycol phenyl ether	1.0

Clean Water Act

(40 CFR 122.21, 122.42)

: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act

California Proposition

65

: This product does not contain any Proposition 65 chemicals.

U.S. State

Right-to-Know  
Regulations

:

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Phenoxyethyl acrylate		×	×	×	
Ethylene glycol phenyl ether		×	×	×	

Please refer to any other federal, state and local regulations.



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### 16. Other Information

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

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.