

1. Identification

Product Name	AS5 ink Light Magenta	
Order No.	AS5-LM-60 / AS5-LM-2L	
Ink Ver.	:1	
General Use	: Ink for ink jet printer	
Product Description	: Solvent pigment ink	
SDS Number	: 037-S285333	
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.	: +1 866 928 0789 (within United States only, Toll free)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Category 4
Health Hazards	
Serious Eye Damage / Irritation	: Category 2A
Specific Target Organ Toxicity	: Category 2(central nervous system)
(Single Exposure)	

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

[HCS Label Elements]

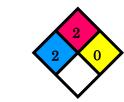




Signal Word Warning Hazard Statements H227 Combustible liquid. H319 Causes serious eye irritation. H371 May cause damage to organs (central nervous system). **Precautionary Statements** [Prevention] P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe gas/mist. P264 Wash hands thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. Responsel P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use appropriate media for extinction [Storage] P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. [Disposal] P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

NFPA Rating (scale 0 - 4)

Health = 2 Flammability = 2 Instability = 0 Special =



CANADIAN WHMIS SYMBOLS $\stackrel{\scriptstyle .}{\scriptstyle \cdot}$ B3 , D2A , D2B



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Glycol ether solvents	70-80	Trade Secret



2	γ -Butyrolactone	10-20	96-48-0
3	Quinacridone series Magenta	0.1-1	Trade Secret
	Azo nickel pigment	<0.1	Trade Secret
4	Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA)	1-10	Trade Secret
5	Acrylic Type Compound	1-10	Trade Secret
6	Additive 1	0.1-1	Trade Secret
7	Additive 2	0.1-5	Trade Secret

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

4. First Aid Measures			
Description of Necessary M	Description of Necessary Measures		
Inhalation	: Remove person to fresh air and keep comfortable for breathing.		
	Call a POISON CENTER or doctor/physician.		
Eye Contact	: Flush eyes with plenty of water for at least 15 minutes. Remove		
	contact lenses, if present and easy to do. Continue rinsing. If		
	irritation or pain persists after fifteen minutes of eye irrigation, seek		
	medical attention.		
Skin Contact	: Wash with plenty of soap and water. Take off contaminated clothing		
	and wash before re-use. Get medical attention if irritation develops.		
Ingestion	: If swallowed, get medical attention.		
Most Important Symptoms/Effects			
Acute	eye irritation, central nervous system damage		
Delayed	: No information on significant adverse effects.		
Indication of Immediate	: Treat symptomatically and supportively.		
Medical Attention and			
Special Treatment			
Needed, If Needed			

5. Fire Fighting Measures

Flammable Properties	: Flash Point: 71 °C (Glycol ether type solvent)
	Auto Ignition Temperature: 169 °C (Glycol ether type solvent)
	Flammable Point:2.5vol%-33.0Vol% (Glycol ether type solvent)
Extinguishing Media	carbon dioxide, regular dry powder, regular dry chemical, water
	spray, alcohol resistant foam.

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Unsuitable Extinguishing	: Do not scatter spilled material with high-pressure water streams.
Media	
Special Hazards Arising	Combustible liquid and vapor. Irritating fumes and gases may be
from the Chemical	released upon thermal processing or during combustion.
Hazardous Combustion	: Combustion: oxides of carbon, oxides of nitrogen.
Products	
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 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	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible exposure.
Precautions for	
Firefighters	

6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	
and Emergency	
Procedures	
Methods and Materials	: Eliminate all ignition sources if safe to do so. Stop leak if possible
for Containment and	without personal risk. Reduce vapors with water spray.
Cleaning Up	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.



Precautions for Safe	[:] Keep away from heat, sparks, open flame, and hot surfaces ⁻ No	
Handling	smoking. Do not breathe 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	: Store and handle in accordance with all current regulations and	
Storage, including any	standards. Store in a well-ventilated place. Keep container tightly	
Incompatibilities	closed. Keep cool. Grounding and bonding required. Store locked up.	
	Keep separated from incompatible substances.	
	Incompatible materials include acids, bases, oxidizing materials, and	
	halogens.	

8. Exposure Controls / Personal Protection

Exposure Limit Values	: ACGIH, OSHA, and NIOSH have not developed exposure limits for	
	any of this product's components.	
Component Biological	: There are no biological limit values for the component(s) of this	
Limit Values	product.	

Exposure Controls

 Occupational Exposure Controls

 Appropriate
 : Provide local exhaust or process enclosure ventilation system.

 Engineering Controls
 Ensure compliance with applicable exposure limits.

 Individual Protection Measures, such as Personal Protective Equipment

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



Glove

: Wear appropriate chemical resistant gloves.

Recommendations



: Wear splash resistant safety goggles with a faceshield. Provide an

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Protection





Apron

emergency eye wash fountain and quick drench shower in the immediate work area.

: Wear appropriate chemical resistant clothing.

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical State	: liquid
- Color	: red
Odor	: solvent odor
pH	: Not Applicable
Boiling Point / Boiling Range	: Not available
Melting Point / Melting Range	: Not available
Flash Point	: 71°C(Glycol ether type solvent)
Auto ignition temperature	: 169 °C (Glycol ether type solvent)
Flammability (Solid, Gas)	: Not available
Upper / Lower Flammability or	$\stackrel{\scriptstyle :}{} 2.5$ vol %-33.0 vol % (Glycol ether type solvent)
Explosive Limits	
Vapor Pressure	: <=0.1 kPa (20°C) (Glycol ether type solvent)
Density	: Not available
Water Solubility	: Not available
Viscosity	: Not available
Vapor Density	: Not available
Evaporation Rate	: Not available

10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Conditions to Avoid	: Avoid flames, sparks, and other sources of ignition. Avoid contact
	with incompatible materials.

Μιπακι

Product Name:AS5 ink Light Magenta SDS No. 037-S285333 First issue: 2020/10/06 Revised:

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Stability	: Stable under normal conditions of use. Avoid contact with
	incompatible materials.
Materials to Avoid	acids, bases, oxidizing materials, halogens
Hazardous Reactions /	: Combustion: oxides of carbon, oxides of nitrogen
Decomposition Products	

11. Toxicological Information

Acute Toxicity

Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

Glycol ether solvents (Trade Secret)

Oral LD50 Rat 6500 $\mu L/kg$

γ -Butyrolactone (96-48-0)

Oral LD50 Rat 1540 mg/kg Inhalation LC50 Rat >5100 mg/m3 4 h

Quinacridone series Magenta (Trade Secret)

Oral LD50 Rat >23 g/kg

Additive 2 (Trade Secret)

Oral LD50 Rat 40 g/kg Dermal LD50 Rabbit >20 mL/kg

Information on Likely Routes of Exposure

Inhalation	: irritation, headache, dizziness, drowsiness.
Ingestion	: vomiting, nausea.
Skin Contact	: No information available for the product.
Eye Contact	: irritation.
Immediate Effects	: eye irritation, central nervous system damage.
Delayed Effects	: No information on significant adverse effects.
Medical Conditions Aggravated	: No information available for the product.
by Exposure	
Irritation/Corrosivity Data	: eye irritation.
Respiratory Sensitization	: No information available for the product.
Dermal Sensitization	: No information available for the product.
Germ Cell Mutagenicity	: No information available for the product.
Carcinogenicity	
Component Carcinogenicity	
γ -Butyrolactone (96-48-0)	



IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 11 [1976] (Group 3 (not classifiable))

Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA) (Trade Secret)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

central nervous system.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No information available for the product.

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 : Harmful to aquatic life.

Component Analysis - Aquatic Toxicity

γ -Butyrolactone (96-48-0)

Algae: 72 Hr EC50 Desmodesmus subspicatus: 360 mg/L;

96 Hr EC50 Desmodesmus subspicatus: 79 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna Straus: >500 mg/L

Additive 2 (Trade Secret)

Algae: 72 Hr EC50 Desmodesmus subspicatus: 8 mg/L

Mobility	: No information available for the product.
Persistence and	: No information available for the product.
Degradability	
Bioaccumulative	: No information available for the product.
Potential	
Other Adverse Effects	: No additional information is available.

13. Disposal Considerations

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

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Numbers	components.
Disposal of	: Empty containers may contain product residue. Dispose in
Contaminated	accordance with all applicable regulations.
Packaging	

Comply with all USA, national and local regulations.

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

14. Transport Information

	Check a thing without a leak in a container.
	Perform prevention of collapse of cargo surely.
IATA Information	: Not regulated as dangerous goods for transport.
ICAO Information	: Not regulated as dangerous goods for transport.
IMDG Information	: Not regulated as dangerous goods for transport.
IMDG Information: Not regulated as dangerous goods for transport.Marine Pollutant: γ -Butyrolactone (96-48-0)	
	IBC Code: Category Y
TDG Information	: Not regulated as dangerous goods for transport.
US DOT Information	: Not regulated as dangerous goods for transport. *1
*1 (1) 1 (1) 1	

*1 Class combustible liquid (NA1993), Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities

15. Regulatory Information

U.S. Federal Regulations	 None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan. 						
SARA 311/312	: Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No						
	Reactive: No						
U.S. State Regulations	: None of this product's components are listed on the state lists from						
	CA, MA, MN, NJ or PA.						
	Not regulated under California Proposition 65						
Canada	: WHMIS CLASSIFICATION: B3, D2A, D2B.						
Canadian WHMIS Ingred	lient Disclosure List (IDL)						
	: None of the product component(s) are listed on the Ingredients						
	Disclosure List (IDL).						



Chemical Inventory Listings

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Glycol ether solvents	Trade Secret	Yes	NSL	EIN	No	No	Yes	No	Yes	Yes
γ -Butyrolactone	96-48-0	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Additive 2	Trade Secret	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Quinacridone series Magenta	Trade Secret	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Chlorinated Ethylene-Vinyl	Trade Secret	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes
Acetate Copolymer (CEVA)										

16. Other Information

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code -International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

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