

Safety Data Sheets

1. Identification

Product Name : SS2 ink Magenta
Order No. : SPC-0380M-2A /SPC-0411M-2A
General Use : Ink for ink jet printer
Product Description : Solvent pigment ink
SDS Number : 037-S080520
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

[GHS Classification]

Physical Hazards

Flammable Liquids : Category 4

Health Hazards

Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity : Category 2 (central nervous system)
(Single Exposure)

Specific Target Organ Toxicity : Category 3 (drowsiness and dizziness)
(Repeated Exposure)

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

Safety Data Sheets

[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

H227 Combustible liquid

H319 Cause serious eye irritation

H371 May cause damage to central nervous system

H336 May cause drowsiness and dizziness

Precautionary Statements

[Prevention]

P210 Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P260 Do not breathe vapor or mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

[Response]

P304+P340 IF INHALED: Remove victim 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.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

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

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

P370+P378 In case of fire: Use appropriate media for extinction.

[Storage]

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

P403+P235 Store in a well-ventilated place. Keep cool.

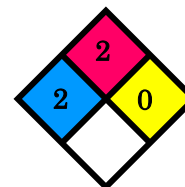
P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

NFPA Rating (scale 0 – 4)

Health = 2
 Flammability = 2
 Instability = 0
 Special = None



CANADIAN WHMIS SYMBOLS



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Glycol ether solvents	65-75	Trade Secret
2	Propylene glycol monomethyl ether acetate	10-20	108-65-6
3	Lactone solvent series	5-15	Trade Secret
4	Vinyl resin	1-5	Trade Secret
5	Quinacridone pigment series	1-5	Trade Secret

4. First Aid 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. Get immediate 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 depression, drowsiness and dizziness
- Delayed : no information on significant adverse effects

Safety Data Sheets

Indication of Immediate : Treat symptomatically and supportively.

Medical Attention and

Special Treatment

Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Flash point 64.2°C (TCC)

Auto Ignition Temperature: 169°C

Flammable point : 2.2% to 33.0%

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 : Combustible liquid and vapor.

Hazardous Combustion Products : oxides of carbon, acid halides

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

Safety Data Sheets

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	: Wear personal protective clothing and equipment, see Section 8. 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.

7. Handling and Storage

Precautions for Safe Handling	: Keep away from heat, sparks, open flame, and hot surfaces - No smoking. 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 and eye/face protection. Wash thoroughly after handling. Avoid release to the environment.
Conditions for Safe Storage, including any Incompatibilities	: Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Grounding and bonding required. Store locked up. Keep separated from incompatible substances.

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 Limit Values	: There are no biological limit values for the component(s) of this product.

Safety Data Sheets

Exposure Controls

Occupational Exposure Controls

Appropriate : Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or Engineering Controls process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection

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



Hand Protection : Wear appropriate chemical resistant gloves.



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



Skin Protection : Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance	- Physical State	: Liquid
	- Color	: Red
Odor		: slight solvent odor
pH		: Not available
Boiling Point / Boiling Range		: ≥ 124 °C
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available
Flash Point		: 64.2°C

Safety Data Sheets

Auto ignition temperature	: 169°C
Flammability (Solid, Gas)	: Not applicable
Explosive Properties	: Not available
Oxidizing Properties	: Not available
Upper / Lower Flammability or Explosive Limits	: 2.2% to 33.0%
Vapor Pressure	: Less than 133Pa(20°C)
Specific Gravity	: 0.970 (20 °C)
Solubility	: Not available
Water Solubility	: Not available
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	: 3.9±0.3(20° C)
Vapor Density	: Not available
Evaporation Rate	: Not available
VOC	: 906.7 g/L

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.
Incompatible Materials	: acids, bases, oxidizing materials, halogens
Hazardous Decomposition	: Combustion: oxides of carbon, acid halides

11. Toxicological Information

Acute Toxicity	: The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:
Component Analysis - LD50/LC50	Propylene glycol monomethyl ether acetate (108-65-6) Dermal LD50 Rabbit >5 g/kg; Oral LD50 Rat 8532 mg/kg

Safety Data Sheets

Lactone solvent series (Proprietary)

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

Information on Likely Routes of Exposure

- Inhalation : irritation, nausea, headache, drowsiness, dizziness, loss of coordination, unconsciousness, coma, kidney damage, liver damage
- Ingestion : irritation, nausea, headache, drowsiness, dizziness, loss of coordination, unconsciousness, coma
- Skin Contact : irritation, nausea, headache, drowsiness, dizziness, unconsciousness, coma
- Eye Contact : irritation
- Immediate Effects : eye irritation, central nervous system depression, drowsiness, dizziness

Delayed Effects : no information on significant adverse effects

Medical Conditions : No information available for the product.

Aggravated by Exposure

Irritation/Corrosivity : eye irritation

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : No information available for the product.

Germ Cell Mutagenicity : No information available for the product.

Carcinogenicity : Component Carcinogenicity

Lactone solvent series (Proprietary)

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

IARC:	Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
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Reproductive Toxicity : No information available for the product.

Specific Target Organ Toxicity - Single Exposure : central nervous system, drowsiness, dizziness

Specific Target Organ Toxicity - Repeated Exposure : No target organs identified.

Aspiration Hazard : No information available for the product.

Safety Data Sheets

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.

Component Analysis -

: Propylene glycol monomethyl ether acetate (108-65-6)

Aquatic Toxicity

Fish:	96 Hr LC50 Pimephales promelas: 161 mg/L [static]
Invertebrate:	48 Hr EC50 Daphnia magna Straus: >500 mg/L

Lactone solvent series (Proprietary)

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

Persistence and

: Not available

Degradability

Bioaccumulation

: Not available

Mobility

: Not available

Other Toxicity

: Not available

13. Disposal Considerations

: Comply with all USA, national and local regulations.

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

Disposal Methods

: Dispose in accordance with all applicable regulations.

Component Waste

: The U.S. EPA has not published waste numbers for this product's components.

Numbers

Disposal of

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

Contaminated

Packaging

Safety Data Sheets

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information

Shipping : Combustible liquid, n.o.s.
Name (Contains: Propylene glycol monomethyl ether acetate)
UN Number : NA1993
Hazardous Class : Combustible liquid

Packing Group (PG) : III

TDG Information : Not regulated as dangerous goods for transport.

Marine Pollutant : Propylene glycol monomethyl ether acetate (108-65-6)

IBC Code: Category Z

Lactone solvent series (Proprietary)

IBC Code: Category Y

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 Title III Section 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, D2B.

Safety Data Sheets

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Glycol ether solvents (Proprietary)	Yes	NSL	EIN	No	No	Yes	No	Yes	No
Propylene glycol monomethyl ether acetate(108-65-6)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Lactone solvent series (Proprietary)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Vinyl resin (Proprietary)	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes

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; 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



Product Name: SS2 ink Magenta

SDS No. 037-S030520

First issue: 2009/12/08

Revised: 2016/12/12

Safety Data Sheets

Other Information

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