

1. Identification

Product Name	SS21 ink Magenta
Order No.	: SPC-0501M-2 / SPC-0588M-2 / SS21-M-60-2
General Use	: Ink for ink jet printer
Product Description	: Solvent pigment ink
SDS Number	: 037-S080497
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 Esta	blished in USA
Company Name	: MIMAKI USA, INC.
Address	: 150 Satellite Boulevard, 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

[GHS Classification] Physical Hazards	
Flammable Liquids	Category 4
Health Hazards	
Eye Damage / Irritation	: Category 1
Toxic to Reproduction	: Category 1B
Specific Target Organ Toxicity : Category	
(Single Exposure)	
Specific Target Organ Toxicity : Category 2	
(Repeated Exposure)	

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

[GHS Label Elements]



Product Name: SS21 ink Magenta SDS No. 037-S080497 First issue: 2007/07/31 Revised: 2022/05/18

Symbol



Safety Data Sheets

Signal Word Danger

Hazard Statements

H227 Combustible liquid.
H318 Cause serious eye damage.
H360 May damage fertility or the unborn child.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from open flames and other ignition sources. No smoking.

P260 Do not breathe gas/mist/vapours.

P264 Wash hands and eyes thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection. [Response]

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.

(P305+)P310 (IF IN EYES) Immediately call a POISON CENTER or doctor/physician. P314 Get medical advice/attention if you feel unwell.

P370+P378 In case of fire: Use foam, carbon dioxide, dry chemical for extinguish. [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 = 3 Flammability = 2

Instability = 0

Special = None

CANADIAN WHMIS SYMBOLS



3. Composition / Information on Ingredients

Mixtures



No	Chemical Name	Wt%	CAS No.
1	Glycol ether solvents	65-75	Trade Secret
2	Propyleneglycol monomethylether acetate	10-20	Trade Secret
3	Lactone solvent series	5-15	Trade Secret
4	Vinyl resin	1-5	Trade Secret
5	Pigment	1-5	Trade Secret

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Description of first aid measures

Eye Contact : If this product comes in contact with the eyes:	
	Wash out immediately with fresh running water. Ensure complete
	irrigation of the eye by keeping eyelids apart and away from eye and
	moving the eyelids by occasionally lifting the upper and lower lids.
	Seek medical attention without delay; if pain persists or recurs seek
	medical attention. Removal of contact lenses after an eye injury
	should only be undertaken by skilled personnel.
Skin Contact	: If skin or hair contact occurs:
	Flush skin and hair with running water (and soap if available). Seek
	medical attention in event of irritation.
Inhalation	: If fumes, aerosols or combustion products are inhaled remove from
	contaminated area. Other measures are usually unnecessary.
Ingestion	: Immediately give a glass of water. First aid is not generally
	required. If in doubt, contact a Poisons Information Centre or a
	doctor.
Most important symptoms	and effects, both acute and delayed

See Section 11.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties	Flash point 64.2 degree C
	Auto Ignition Temperature: 169 degree C
	Explosive Limit : 1.5% to 33.0%
Extinguishing Media	: Foam, Dry chemical powder, BCF (where regulations permit),



	Carbon dioxide, Water spray or fog - Large fires only.		
Unsuitable Extinguishing	: Do not scatter spilled material with high-pressure water streams.		
Media			
Special hazards arising from	the substrate or mixture		
Fire	: None known.		
Incompatibility			
Special protective equipment	t and precautions for fire-fighters		
Fire Fighting	: Alert Fire Brigade and tell them location and nature of hazard.		
	Wear full body protective clothing with breathing apparatus.		
	Prevent, by any means available, spillage from entering drains or		
	water course. Use water delivered as a fine spray to control fire and		
	cool adjacent area. Avoid spraying water onto liquid pools.		
	DO NOT approach containers suspected to be hot. Cool fire exposed		
	containers with water spray from a protected location.		
	If safe to do so, remove containers from path of fire.		
Fire/Explosion	: Combustible.		
Hazard	Slight fire hazard when exposed to heat or flame. Heating may		
	cause expansion or decomposition leading to violent rupture of		
	containers. On combustion, may emit irritating/ toxic fumes. May		
	emit acrid smoke. Mists containing combustible materials may be		
	explosive.		
	May emit poisonous fumes.		
	May emit corrosive fumes.		

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

See section 8.

Environmental precautions

See section 12.

Methods and material for containment and cleaning up

Minor Spills: Remove all ignition sources. Clean up all spills immediately.Avoid breathing vapours and contact with skin and eyes. Control
personal contact with the substance, by using protective equipment.
Contain and absorb spill with sand, earth, inert material or
vermiculite. Wipe up. Place in a suitable, labelled container for waste
disposal.

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Major Spills

: Moderate hazard.

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

7. Handling and Storage

Precautions for Safe	Avoid all personal contact, including inhalation. Wear protective
Handling	clothing when risk of exposure occurs. Use in a well-ventilated area.
	Avoid smoking, naked lights or ignition sources. Avoid contact with
	incompatible materials. When handling, DO NOT eat, drink or
	smoke. Keep containers securely sealed when not in use. Avoid
	physical damage to containers. Always wash hands with soap and
	water after handling. Work clothes should be laundered separately.
Conditions for Safe	: Store in original containers. Keep containers securely sealed.
Storage	No smoking, naked lights or ignition sources. Store in a cool, dry,
	well-ventilated area. Store away from incompatible materials and
	foodstuff containers. Protect containers against physical damage and
	check regularly for leaks. Observe manufacturer's storage and
	handling recommendations contained within this SDS.
Storage	: None known.
incompatibility	

8. Exposure Controls / Personal Protection

Control parameters OCCUPATIONAL EXPOSURE LIMITS (OEL) INGREDIENT DATA Not Available.



EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Vinyl resin	Trade secret	120 mg/m3	1,300 mg/m3	7,900 mg/m3
Lactone solvent series	Trade secret	3.6 mg/m3	39 mg/m3	310 mg/m3
Propyleneglycol	Propylene glycol			
monomethylether	monomethyl ether acetate,	Not	Not	Not
l ·	alpha-isomer;	Available	Available	Available
acetate	(1-Methoxypropyl-2-acetate)			

Ingredient	Original IDLH	Revised IDLH	
Pigment	Not Available	Not Available	
Vinyl resin	Not Available	Not Available	
Glycol ether solvents	Not Available	Not Available	
Lactone solvent series	Not Available	Not Available	
Propyleneglycol	Not Available	Not Available	
monomethylether acetate	inot Available	Not Available	

Exposure Controls

Occupational Exposure Controls

Appropriate	: General exhaust is adequate under normal operating conditions. If
Engineering Controls	risk of overexposure exists, wear SAA approved respirator. Correct fit
	is essential to obtain adequate protection. Provide adequate
	ventilation in warehouse or closed storage areas.

Personal Protection

Respiratory

Protection





Eye Protection

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

: Wear chemical protective gloves, e.g. PVC.

: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

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Skin Protection



: Wear safety footwear or safety gumboots, e.g. Rubber. Overalls. P.V.C. apron.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Magenta liquid

Physical state	Liquid	Relative density (Water = 1)	0.971
Odour	Slight	Partition coefficient	Not Available
		n-octanol / water	
Odour threshold	Not Available	Auto-ignition temperature	169
		(°C)	
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point /freezing point	Not Available	Viscosity (cSt)	Not Available
(°C)			
Initial boiling point and	147-204	Molecular weight (g/mol)	Not Available
boiling range (°C)			
Flash point (°C)	64.2 (closed cup)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible	Oxidising properties	Not Available
Upper Explosive Limit (%)	33	Surface Tension (dyn/cm or	Not Available
		mN/m)	
Lower Explosive Limit (%)	1.5	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.67	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

10. Stability and Reactivity

Reactivity

: Stable under normal conditions of use.

Chemical Stability

: Unstable in the presence of incompatible materials.

Product is considered stable.

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Possibility of Hazardous	: Hazardous polymerisation will not occur.
Reactions	
Conditions to Avoid	See section 7.
Incompatible Materials	See section 7.
Hazardous	See section 5.
decomposition products	

11. Toxicological Information

Information on toxicological effects

million mation on toxico	nogical enects
Inhaled	: The material is not thought to produce adverse health effects or
	irritation of the respiratory tract (as classified by EC Directives using
	animal models). Nevertheless, good hygiene practice requires that
	exposure be kept to a minimum and that suitable control measures be
	used in an occupational setting.
Ingestion	: The material has NOT been classified by EC Directives or other
	classification systems as 'harmful by ingestion'. This is because of the
	lack of corroborating animal or human evidence.
Skin Contact	: The liquid may be miscible with fats or oils and may degrease the skin,
	producing a skin reaction described as non-allergic contact dermatitis.
	The material is unlikely to produce an irritant dermatitis as described
	in EC Directives.
	Open cuts, abraded or irritated skin should not be exposed to this
	material
	Entry into the blood-stream, through, for example, cuts, abrasions or
	lesions, may produce systemic injury with harmful effects. Examine
	the skin prior to the use of the material and ensure that any external
	damage is suitably protected.
Eye	: This material can cause eye irritation and damage in some persons.
Chronic	: Ample evidence exists from experimentation that reduced human
	fertility is directly caused by exposure to the material.
	Ample evidence exists, from results in experimentation, that
	developmental disorders are directly caused by human exposure to the
	material.

Ingredient	TOXICITY	IRRITATION
As a product	Not Available	Not Available



Pigment	Not Available	Not Available
Vinyl resin	Not Available	Not Available
Glycol ether solvents	Not Available	Not Available
Lactone solvent series	Not Available	Not Available
Propyleneglycol monomethylether acetate	Not Available	Not Available

Acute Toxicity	: Data Not Available to make classification.
Skin	: Data Not Available to make classification.
Irritation/Corrosion	
Serious Eye	: Data available to make classification.
Damage/Irritation	
Respiratory or Skin	: Data Not Available to make classification.
sensitisation	
Mutagenicity	: Data Not Available to make classification.
Carcinogenicity	: Data Not Available to make classification.
Reproductivity	: Data available to make classification.
STOT - Single Exposure	: Data available to make classification.
STOT - Repeated	: Data available to make classification.
Exposure	
Aspiration Hazard	\vdots Data Not Available to make classification.

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.

Ingredient	Endpoint	Test Duration	Species	Value	Source
		(hr)			
	LC50	96	Fish	713.772mg/L	3
Glycol ether solvents	EC50	96	Algae or other aquatic plants	4246.290mg/L	3
	EC50	384	Crustacea	163.553mg/L	3
	LC50	96	Fish	220mg/L	1
Lactone solvent	EC50	48	Crustacea	>500mg/L	1
series	EC50	96	Algae or other aquatic plants	16.400mg/L	3



	EC20	72	Algae or other aquatic plants	=14mg/L	1
	NOEC	24	Fish	=5mg/L	1
	LC50	96	Fish	100mg/L	1
Propyleneglycol monomethylether acetate	EC50	48	Crustacea	=408mg/L	1
	EC50	96	Algae or other aquatic plants	9.337mg/L	3
	EC0	24	Crustacea	=500mg/L	1
	NOEC	336	Fish	47.5mg/L	2

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances – Ecotoxicological

Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated)

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Glycol ether solvents	LOW	LOW
Lactone solvent series	LOW	LOW
Propyleneglycol	I OW	LOW
monomethylether acetate	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
Glycol ether solvents	LOW (LogKOW = 0.0093)
Lactone solvent series	LOW (BCF = 1.8)
Propyleneglycol	LOW (LogKOW = -0.56)
monomethylether acetate	

Mobility in soil

Ingredient	Mobility
Glycol ether solvents	LOW (KOC = 10)
Lactone solvent series	LOW (KOC = 7.134)
Propyleneglycol	HIGH (KOC = 1.838)
monomethylether acetate	

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.

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Product Name: SS21 ink Magenta SDS No. 037-S080497 First issue: 2007/07/31 Revised: 2022/05/18

Disposal of	\therefore Empty containers may contain product residue. Dispose in
Contaminated	accordance with all applicable regulations.
Packaging	

14. Transport Information

Check a thing without a leak in a container. Perform prevention of collapse of cargo surely. Labels Required : Marine Pollutant; NO : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. Land transport (DOT) *1 : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. Air transport (ICAO-IATA / DGR) Sea transport : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. (IMDG-Code / GGVSee) Transport in bulk : Not Applicable according to Annex II of MARPOL and the IBC code

*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

Safety, health and environmental regulations / legislation specific for the substance or mixture PIGMENT IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

VINYL RESIN IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

GLYCOL ETHER SOLVENTS ARE FOUND ON THE FOLLOWING REGULATORY LISTS

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)

US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)

US - Pennsylvania - Hazardous Substance List

US Clean Air Act - Hazardous Air Pollutants

US EPCRA Section 313 Chemical List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

LACTONE SOLVENT SERIES ARE FOUND ON THE FOLLOWING REGULATORY LISTS



US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

PROPYLENEGLYCOL MONOMETHYLETHER ACETATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)

US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)

US - California Permissible Exposure Limits for Chemical Contaminants

US - Pennsylvania - Hazardous Substance List

US AIHA Workplace Environmental Exposure Levels (WEELs)

US Clean Air Act - Hazardous Air Pollutants

US EPCRA Section 313 Chemical List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	Yes
Fire hazard	Yes
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported.

State Regulations

US. CALIFORNIA PROPOSITION 65



: WARNING:

This product can expose you to chemicals including Vinyl Chloride, Ethylene Glycol Monoethyl Ether, Acetaldehyde and Methanol which are known to the State of California to cause cancer/ birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Inventory

National Inventory	Status
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Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	N
USA - TSCA	Y

Legend: Y = All ingredients are on the inventory.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets).

16. Other Information

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.

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