

SDS No. 037-S080497 First issue: 2007/07/31

Revised: 2017/06/22

Safety Data Sheets

Identification

Product Name : SS21 ink Magenta

Order No. : SPC-0501M-2 / SPC-0588M-2

General Use : Ink for ink jet printer Product Description : Solvent pigment ink

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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. : +1-678-730-0170 Emergency Telephone No. : +81-268-64-2281

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 2

(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] Symbol







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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







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



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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



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Fire : None known.

Incompatibility

Special protective equipment 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.

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



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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

Handling

Avoid all personal contact, including inhalation. Wear protective 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

Storage

Store in original containers. Keep containers securely sealed.

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



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Dwonylonoglygol	Propylene glycol			
Propyleneglycol	monomethyl ether acetate,	Not	Not	Not
monomethylether	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 : Consult with a health and safety professional for specific respirators

Protection appropriate for your use.



Hand Protection

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



Eye Protection



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

concentrate irritants.

Skin Protection : Wear safety footwear or safety gumboots, e.g. Rubber. Overalls.

P.V.C. apron.



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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 n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	169
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point /freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	147-204	Molecular weight (g/mol)	Not Available
Flash point (°C)	64.2	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 mN/m)	Not Available
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.

Possibility of Hazardous : Hazardous polymerisation will not occur.

Reactions

Conditions to Avoid : See section 7.

Incompatible Materials : See section 7.



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Hazardous : See section 5.

decomposition products

11. Toxicological Information

Information on toxicological effects

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



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Propyleneglycol	Not Available	Not Available
monomethylether acetate	Tvot I valiable	1vot I valiable

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 : 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
	EC50	48	Crustacea	>500mg/L	1
Lactone solvent	EC50	96	Algae or other aquatic plants	16.400mg/L	3
series	EC20	72	Algae or other aquatic plants	=14mg/L	1
	NOEC	24	Fish	=5mg/L	1
Propyleneglycol	LC50	96	Fish	100mg/L	1



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monomethylether	EC50	48	Crustacea	=408mg/L	1
acetate	EC50	96	Algae or other aquatic plants	9.337mg/L	3
	EC0	24	Crustacea	=500mg/L	1
	NOEC	336	Fish	47.5mg/L	2

 $Legend: Extracted \ from \ 1. \ IUCLID \ Toxicity \ Data \ 2. \ Europe \ ECHA \ Registered \ Substances - Ecotoxicological \ Compared \ Frank \ Fran$

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	LOW	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.

Disposal of : Empty containers may contain product residue. Dispose in

Contaminated accordance with all applicable regulations.

Packaging



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14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Labels Required : Marine Pollutant; NO

Land transport (DOT) : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

*1

Air transport : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

(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

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

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



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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

None Reported.

Inventory

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



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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.

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