

1. Identification

Product Name	: SS21 ink Light Cyan
Order No.	: SPC-0501LC-3 / SPC-0588LC-3 / SS21-LC-60-3
General Use	: Ink for ink jet printer
Product Description	: Solvent pigment ink
SDS Number	: 037-S080499
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	
Health Hazarus	
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]



Product Name: SS21 ink Light Cyan SDS No. 037-S080499 First issue: 2011/06/24 Revised: 2022/05/18

Symbol



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	75-85	Trade Secret
2	Lactone solvent series	10-20	Trade Secret
3	Vinyl resin	1-5	Trade Secret
4	Pigment	0.1-1	Trade Secret
5	Corrosion inhibitor	0.1-1	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:
	Immediately hold eyelids apart and flush the eye continuously with
	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. Continue flushing until
	advised to stop by the Poisons Information Centre or a doctor, or for
	at least 15 minutes. Transport to hospital or doctor without delay.
	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 symptom	as 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 71.1 degree C
	Auto Ignition Temperature: 169 degree C



Product Name: SS21 ink Light Cyan SDS No. 037-S080499 First issue: 2011/06/24 Revised: 2022/05/18

Safety Data Sheets

	Explosive Limit : 2% 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

MINCIKI[®] Safety Data Sheets

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
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

Source	Ingredient	Material name	TWA	STE	$^{\rm L}$	Peak	Notes
OSHA-	Diama ant	Tua da acoust	0.1 mg/m3 /	Not		Not	(as Cu) / (as Cu);Dusts
PELs	Pigment	Trade secret	1mg/m3	Availa	able	Available	and mists
EMERGENCY LIMITS							
Ing	redient	Material name	TEEL-1	-		TEEL-2	TEEL-3
Vinyl resi	in	Trade secret	120 mg/n	n3	1,	300 mg/m3	7,900 mg/m3
Lactone s	olvent series	Trade secret	3.6 mg/m	13	i e	39 mg/m3	310 mg/m3

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
Corrosion inhibitor	Not Available	Not Available

Exposure Controls

Occupational Exposure Controls

Appropriate

Engineering Controls

: General exhaust is adequate under normal operating conditions. If 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.

: Consult with a health and safety professional for specific respirators

Personal Protection

Respiratory

Protection



Hand Protection



Eye Protection



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

appropriate for your use.

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



Skin Protection

Protective Apron

: 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: Light Cyan liquid

Physical state	Liquid	Relative density (Water = 1)	0.964
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)	176-204	Molecular weight (g/mol)	Not Available
Flash point (°C)	71.1 (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 mN/m)	Not Available
Lower Explosive Limit (%)	2	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.
Hazardous	: See section 5.
decomposition products	

11. Toxicological Info	ormation
Information on toxico	logical 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	: If applied to the eyes, this material causes severe eye damage.
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



Damage/Irritation

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Saloty Data SI	10000		
Lactone solvent series		Not Available	Not Available
Corrosion inhibitor		Not Available	Not Available
Acute Toxicity	: Dat	a Not Available to make classifica	tion.
Skin		a Not Available to make classifica	
Irritation/Corrosion			
Serious Eye	: Dat	a available to make classification	

Respiratory or Skin	\div Data Not Available to make classification.	
sensitisation		
Mutagenicity	\therefore 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	\div 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	4610.012mg/L	3
Pigment	EC50	96	Algae or other aquatic plants	30524.744mg/L	3
	EC50	384	Crustacea	1049.064mg/L	3
	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
T /	LC50	96	Fish	220mg/L	1
Lactone	EC50	48	Crustacea	>500mg/L	1
solvent 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	1514.080mg/L	3
	EC50	48	Crustacea	374mg/L	2
Corrosion inhibitor	EC50	96	Algae or other aquatic plants	61.454mg/L	3
	EC50	504	Crustacea	59.8mg/L	2
	NOEC	504	Crustacea	3.99mg/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
Pigment	HIGH	HIGH
Glycol ether solvents	LOW	LOW
Lactone solvent series	LOW	LOW
Corrosion inhibitor	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
Pigment	LOW (BCF = 11)
Glycol ether solvents	LOW (LogKOW = 0.0093)
Lactone solvent series	LOW (BCF = 1.8)
Corrosion inhibitor	LOW (LogKOW = -0.6047)

Mobility in soil

Ingredient	Mobility
Pigment	LOW (KOC = 1000000000)
Glycol ether solvents	LOW (KOC = 10)
Lactone solvent series	LOW (KOC = 7.134)
Corrosion inhibitor	HIGH (KOC = 1)

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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Disposal of	: 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 col	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			

*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 - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals Causing Reproductive Toxicity

- US California OEHHA/ARB Acute Reference Exposure Levels and Target Organs (RELs)
- US California Permissible Exposure Limits for Chemical Contaminants
- US California Proposition 65 Carcinogens
- US California Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens
- US Hawaii Air Contaminant Limits
- US Idaho Limits for Air Contaminants
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US Oregon Permissible Exposure Limits (Z-1)



US - Pennsylvania - Hazardous Substance List

US - Rhode Island Hazardous Substance List

- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens

US OSHA Permissible Exposure Levels (PELs) - Table Z1

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

CORROSION INHIBITOR IS FOUND ON THE FOLLOWING REGULATORY LISTS

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



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	Pressure hazard	No

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

No

None Reported.

Reactivity hazard

State Regulations

US. CALIFORNIA PROPOSITION 65

: WARNING: This product can expose you to chemicals including Cumene, Ethylbenzene, Vinyl Chloride, Ethylene Glycol Monoethyl Ether, Acetaldehyde, Methanol and Benzene 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
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.



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