

Product Identifier: SS22 Light Cyan

SDS No. 037-S338006 First issue: 2024/05/07

Revised:

1. IDENTIFICATION

Product Identifier SS22 Light Cyan

Product code SS22-LC-1L / SS22-LC-44

Recommended use of the chemical and

restrictions on use

Manufacturer MIMAKI ENGINEERING CO., LTD.

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

+81-268-64-2413

Ink for ink jet printer

Importer / Distributor MIMAKI USA, INC.

150 Satellite Boulevard NE, suite A, Suwanee, Georgia 30024, U.S.A.

+1-678-730-0170

Emergency Telephone No. +1 866 928 0789 (within United States only, Toll free)

+1 215 207 0061

2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of 29

CFR § 1910.1200

Flammable Liquids Category 4

Serious Eye Damage/Eye Irritation Category 1

Reproductive Toxicity Category 2

GHS Label Elements

Symbols





Signal Word Danger

Hazard Statements H227 Combustible liquid.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention Obtain SDS (Safety Data Sheet) and printer's Operation Manual before

use. (P201)

Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. (P210)

Wear protective gloves, protective clothing, eye protection and face

protection. (P280)

Do not handle until all safety precautions have been read and

understood. (P202)

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)



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IF exposed or concerned: Get medical advice/ attention. (P308+P313) Immediately call a POISON CENTER/doctor/physician/first aider.

(P310)

In case of fire: Use alcohol resistant foam or normal protein foam to

extinguish. (P370+P378)

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

Store locked up. (P405)

Disposal Dispose of contents/container to authorised hazardous or special

waste collection point in accordance with any local regulation. (P501)

NFPA Hazard Rating

In case of ingestion

Health 3
Flammability 2
Reactivity 0

Specific hazard Not applicable



3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Mixtures	
Chemical name	Contents	CAS number
Glycol ether solvent	80-90	Trade secret
Heterocyclic compound	1–10	Trade secret
Vinyl resin	1–10	Trade secret
Phthalocyanine pigment	0.1-1	Trade secret

4. FIRST-AID MEASURES	
In case of inhalation	If fumes, aerosols or combustion products are inhaled remove from
	contaminated area.
	Other measures are usually unnecessary.
In case of skin contact	Immediately remove all contaminated clothing, including footwear.
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.
In case of eye contact	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.

Immediately give a glass of water.



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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	
Suitable extinguishing media	Foam, Dry chemical powder, BCF (where regulations permit), Carbon dioxide and Water spray or fog – Large fires only.
Unsuitable extinguishing media	Cylindric water.
Specific hazards arising from the chemical	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.
Special protective equipment and precautions for fire-fighters	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 Hazard	Combustible.
·	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 toxic fumes of carbon monoxide (CO). May emit acrid smoke.
	Mists containing combustible materials may be explosive.
	Combustion products include carbon dioxide (CO2) and other pyrolysis
	products typical of burning organic material.
	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



Major Spills

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Methods and materials 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.

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 handling Safe handling

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked.

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.

Use good occupational work practice.



Other information

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Observe manufacturer's storage and handling recommendations

contained within this SDS.

Atmosphere should be regularly checked against established exposure

standards to ensure safe working conditions.

DO NOT allow clothing wet with material to stay in contact with skin.

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.

Conditions for safe storage, including any incompatibilities

Storage incompatibility

Avoid reaction with oxidising agents i.e. nitrates, oxidising acids,

chlorine bleaches, pool chlorine etc.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible	Vinyl resin	Particulates Not	5 mg/m3	Not Available	Not Available	Not Available
Exposure Limits (PELs)		Otherwise Regulated				
Table Z−1		(PNOR)- Respirable				
		fraction				
US OSHA Permissible	Vinyl resin	Particulates Not	15 mg/m3	Not Available	Not Available	Not Available
Exposure Limits (PELs)		Otherwise Regulated				
Table Z−1		(PNOR)- Total dust				
US OSHA Permissible	Vinyl resin	Inert or Nuisance Dust:	15 mg/m3 /	Not Available	Not Available	Not Available
Exposure Limits (PELs)		Total Dust	50 mppcf			
Table Z−3						
US OSHA Permissible	Vinyl resin	Inert or Nuisance Dust:	5 mg/m3 /	Not Available	Not Available	Not Available
Exposure Limits (PELs)		Respirable fraction	15 mppcf			
Table Z−3						
US NIOSH Recommended	Vinyl resin	Particulates not	Not Available	Not Available	Not Available	See Appendix
Exposure Limits (RELs)		otherwise regulated				D
US OSHA Permissible	Phthalocyanine	Particulates Not	15 mg/m3	Not Available	Not Available	Not Available
Exposure Limits (PELs)	pigment	Otherwise Regulated				
Table Z−1		(PNOR)- Total dust				
US OSHA Permissible	Phthalocyanine	Particulates Not	5 mg/m3	Not Available	Not Available	Not Available
Exposure Limits (PELs)	pigment	Otherwise Regulated				
Table Z−1		(PNOR)- Respirable				
		fraction				



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US OSHA Permissible	Phthalocyanine	Inert or Nuisance Dust:	5 mg/m3 /	Not Available	Not Available	Not Available
Exposure Limits (PELs)	pigment	Respirable fraction	15 mppcf			
Table Z−3						
US OSHA Permissible	Phthalocyanine	Inert or Nuisance Dust:	15 mg/m3 /	Not Available	Not Available	Not Available
Exposure Limits (PELs)	pigment	Total Dust	50 mppcf			
Table Z−3						
US NIOSH Recommended	Phthalocyanine	Particulates not	Not Available	Not Available	Not Available	See Appendix
Exposure Limits (RELs)	pigment	otherwise regulated				D

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Vinyl resin	120 mg/m3	1,300 mg/m3		7,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
Glycol ether solvent	Not Available		Not Available	
Heterocyclic compound	Not Available		Not Available	
Vinyl resin	Not Available		Not Available	
Phthalocyanine pigment	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
Glycol ether solvent	E	≤ 0.1 ppm	
Heterocyclic compound	E	≤ 0.1 ppm	

Notes:

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Exposure controls

General exhaust is adequate under normal operating conditions. If risk Appropriate engineering controls

> of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation

in warehouse or closed storage areas.

Individual protection measures, such as

personal protective equipment

Respiratory protection Consult with a health and safety professional for specific respirators

appropriate for your use.

Hand protection Wear chemical protective gloves, e.g. PVC.

Safety glasses with side shields. Chemical goggles. Contact lenses Eye protection

may pose a special hazard; soft contact lenses may absorb and

concentrate irritants.

Skin and body protection Wear safety footwear or safety gumboots, e.g. Rubber. Overalls.

P.V.C. apron.

9	PHYSICAL	AND	CHEMICAL	PROPERTIES
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Appearance

Liquid Physical State Color Cyan Odor Fragrant Not Available Odor threshold Not Available Hq Melting point Not Available Boiling point Not Available Flash point 65.2°C

Evaporation rate Not Available Flammability(Solid,Gas) Combustible.

Flammability or explosive limits

Lower Limit Not Available
Upper Limit Not Available
Vapor pressure Not Available
Vapor density Not Available

Specific Gravity (Density) 0.9–1.0 (Relative density. Water = 1)

Solubility

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Not Available

Not Available

Not Available

2-5mPa•s

10. STABILITY AND REACTIVITY

Reactivity See section 7

Chemical stability Unstable in the presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

Possibility of hazardous reactions
Conditions to avoid
See section 7
Incompatible materials
See section 7
Hazardous decomposition products
See section 5

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



Skin Contact

Chronic

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lack of corroborating animal or human evidence.

Skin contact is not thought to have harmful health effects (as

classified under EC Directives); the material may still produce health

damage following entry through wounds, lesions or abrasions.

There is some evidence to suggest that this material can cause

inflammation of the skin on contact in some persons.

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.

Ample evidence from experiments exists that there is a suspicion this

material directly reduces fertility.

Ingredient	TOXICITY	IRRITATION
As a product	Not Available	Not Available
Glycol ether solvent	dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: >5.14 mg/l 4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) [1] Skin: no adverse effect observed (not irritating) [1]
Heterocyclic compound	Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 300-2000 mg/kg ^[1]	Eye (rabbit): Severe Eye: adverse effect observed (irritating) [1] Skin (rabbit): mild Skin: no adverse effect observed (not irritating) [1]
Vinyl resin	Not Available	Not Available
Phthalocyanine pigment	dermal (rat) LD50: >2000 mg/kg Inhalation(Rat) LC50: >1.084<5.212 mg/l 4h Oral (Rat) LD50: >2000 mg/kg	Not Available

^{1.} Value obtained from Europe ECHA Registered Substances - Acute toxicity

12. ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
As a product	Not Available	Not Available	Not Available	Not Available	Not Available
Glycol ether solvent	EC50	72h	Algae or other aquatic plants	>89.5mg/I	2
	EC50	48h	Crustacea	>93.6mg/l	2

^{2.} Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances



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	LC50	96h	Fish	>90.8mg/l	2
	NOEC(ECx)	504h	Crustacea	10mg/l	2
Heterocyclic compound	EC50	72h	Algae or other aquatic plants	>100mg/I	2
	EC50	48h	Crustacea	>100mg/l	2
	NOEC(ECx)	96h	Fish	>=100mg/l	2
	LC50	96h	Fish	100mg/l	2
Vinyl resin	Not Available	Not Available	Not Available	Not Available	Not Available
Phthalocyanine pigment	BCF	1008h	Fish	<0.33-11	7
	EC50	72h	Algae or other aquatic plants	>100mg/I	2
	EC50	48h	Crustacea	>100mg/l	2
	LC50	96h	Fish	>100mg/l	2
	EC50(ECx)	504h	Crustacea	>1mg/l	2

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information -Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Glycol ether solvent	LOW	LOW
Heterocyclic compound	HIGH	HIGH
Phthalocyanine pigment	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation	
Glycol ether solvent	LOW (LogKOW = 0.0093)	
Heterocyclic compound	LOW (LogKOW = -0.3135)	
Phthalocyanine pigment	LOW (BCF = 11)	

Mobility in soil

Ingredient	Mobility
Glycol ether solvent	LOW (KOC = 10)
Heterocyclic compound	LOW (KOC = 15.13)
Phthalocyanine pigment	LOW (KOC = 10000000000)

13. DISPOSAL CONSIDERATIONS

Product / Packaging disposal Legislation addressing waste disposal requirements may differ by country, state and/ or territory.



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Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

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

14. TRANSPORT INFORMATION

Labels Required Marine Pollutant

NO

Land transport (DOT) Air transport (ICAO-IATA / DGR) Sea transport (IMDG-Code / GGVSee) Transport in bulk according to Annex II of MARPOL and the IBC code

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

Glycol ether solvent is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US EPCRA Section 313 Chemical List

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

Heterocyclic compound is found on the following regulatory lists

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

US TSCA Section 12(b) - List of Chemical Substances Subject

to Export Notification Requirements

US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)

Vinyl resin is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

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

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Phthalocyanine pigment is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US Clean Air Act - Hazardous Air Pollutants US

CWA (Clean Water Act) - Priority Pollutants US

CWA (Clean Water Act) - Toxic Pollutants

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

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

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes		
Gas under pressure	No		
Explosive	No		
Self-heating	No		
Pyrophoric Gas	No		
Corrosive to metal	No		
Oxidizer (Liquid, Solid or Gas)	No		
Organic Peroxide	No		
Self-reactive	No		
In contact with water emits flammable gas	No		
Combustible Dust	No		
Carcinogenicity	No		
Acute toxicity (any route of exposure)	No		
Reproductive toxicity	Yes		
Skin Corrosion or Irritation	No		
Respiratory or Skin Sensitization	No		
Serious eye damage or eye irritation	Yes		
Specific target organ toxicity (single or repeated exposure)	No		
Aspiration Hazard	No		
Germ cell mutagenicity	No		
Simple Asphyxiant	No		
Hazards Not Otherwise Classified	No		

US. EPA	CERCLA Hazardous	Substances	and Reportable	Quantities	(40 CFR 302.4)
None	Reported				

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State Regulations US. California Proposition 65 None Reported

16. OTHER INFORMATION

Literature References Other data

SDS of raw material

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.

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