

1. Identification

Product Name	: CS250 ink Black	
Order No.	: CS250-K-BA	
General Use	: Ink for ink jet printer	
Product Description	: Solvent pigment ink	
SDS Number	: 037-S295560	
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 NE , 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 [HCS Classification]

Physical Hazards	
Flammable Liquids	: Category 4
TT 1/1 TT 1	
Health Hazards	
Serious Eye Damage / Irritation	: Category 2A
Carcinogenicity	: Category 2
Specific Target Organ Toxicity	: Category 2(central nervous system)
(Single Exposure)	
Specific Target Organ Toxicity	: Category 1 (lungs)
- Repeated Exposure	

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

[HCS Label Elements]



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Symbol



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Signal Word DANGER

Hazard Statements H227 Combustible liquid. H319 Cause serious eye irritation. H351 Suspected of causing cancer. H371 May cause damage to organs (central nervous system) H372 Causes damage to organs through prolonged or repeated exposure (lungs). **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 heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe gas/mist. P264 Wash hands 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+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention 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+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).

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Glycol ether solvents	70-80	Trade Secret
2	γ -Butyrolactone	10-20	96-48-0
3	Carbon black	1-10	Trade Secret
4	Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA)	1-10	Trade Secret



5	Acrylic type resine	1-10	Trade Secret
6	Additive	0.1-5	Trade Secret

The chemical identity and/or percentage of composition is being withheld as a trade secret.

4. First Aid Measures	
Description of Necessary M	leasures
Inhalation	Remove person to fresh air and keep comfortable for breathing. Give
	artificial respiration if not 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. If
	irritation or pain persists after fifteen minutes of eye irrigation, seek
	medical attention.
Skin Contact	: Wash with plenty of soap and water. If skin irritation occurs, get
	medical advice/attention. Take off contaminated clothing and wash
	before re-use.
Ingestion	: If swallowed, get medical attention.
Most Important Symptom	s/Effects
Acute	: eye irritation, central nervous system damage
Delayed	: cancer, lung damage
Indication of Immediate	: Treat symptomatically and supportively.
Medical Attention and	
Special Treatment	
Needed, If Needed	

5. Fire Fighting Measures

Flammable Properties	: Flash Point: 70 °C
	Auto Ignition Temperature: 169 °C (Glycol ether type solvent)
	Flammable Point:2.5vol%-33.0Vol% (Glycol ether type solvent)
Extinguishing Media	: carbon dioxide, regular dry powder, regular dry chemical, water
	spray, alcohol resistant foam.
Unsuitable Extinguishing	: Do not scatter spilled material with high-pressure water streams.
Media	
Special Hazards Arising	: Combustible liquid and vapor. Irritating fumes and gases may be
from the Chemical	released upon thermal processing or during combustion.

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Hazardous Combustion Products	: Combustion: oxides of carbon, oxides of nitrogen
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	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible exposure.
Precautions for	
Firefighters	

6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	
and Emergency	
Procedures	
Methods and Materials	: Eliminate all ignition sources if safe to do so. Stop leak if possible
for Containment and	without personal risk. Reduce vapors with water spray.
Cleaning Up	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: Keep away from heat, sparks, open flame, and hot surfaces - NoHandlingsmoking. Obtain special instructions before use. Do not handle until
all safety precautions have been read and understood. Do not breathe

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	vapor or mist. Avoid contact with eyes, skin and clothing. Do not eat,
	drink, or smoke when using this product. Wear protective
	gloves/clothing and eye/face protection. Wash thoroughly after
	handling.
Conditions for Safe	: Store and handle in accordance with all current regulations and
Storage, including any	standards. Store in a well-ventilated place. Keep container tightly
Incompatibilities	closed. Keep cool. Grounding and bonding required. Store locked up.
	Keep separated from incompatible substances.
	Incompatible materials include acids, bases, oxidizing materials, and
	halogens.

Exposure Controls / Personal Protection 8.

Exposure Limit Values

Carbon black (1333-86-4)

ACGIH: 3 mg/m3 TWA (inhalable fraction)

OSHA: 3.5 mg/m3 TWA

NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA

(Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)

Mexico: 3.5 mg/m3 TWA LMPE-PPT

7 mg/m3 STEL [LMPE-CT]

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

Exposure Controls

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system.

Engineering Controls Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

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



Glove

: Wear appropriate chemical resistant gloves.

Recommendations

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

: Wear appropriate chemical resistant clothing.

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical State	: liquid	
- Color	: black	
Odor	: solvent odor	
pH	: Not Applicable	
Boiling Point / Boiling Range	: Not available	
Melting Point / Melting Range	: Not available	
Flash Point	$:70^{\circ}$ C (Tag closed cup)	
Auto ignition temperature	: 169 °C (Glycol ether type solvent)	
Flammability (Solid, Gas)	: Not available	
Upper / Lower Flammability or	: 2.5 vol %-33.0 vol % (Glycol ether type solvent)	
Explosive Limits		
Vapor Pressure	: <=0.1 kPa (20°C) (Glycol ether type solvent)	
Density	: 0.969 g/cm3	
Water Solubility	: Not available	
Viscosity	: 4.0-4.5 mPa/s @25 °C	
Vapor Density	: Not available	
Evaporation Rate	: Not available	



10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Conditions to Avoid	: Avoid flames, sparks, and other sources of ignition. Avoid contact
	with incompatible materials.
Stability	: Stable under normal conditions of use.
Materials to Avoid	: acids, bases, oxidizing materials, halogens
Hazardous Reactions /	: Combustion: oxides of carbon, oxides of nitrogen
Decomposition Products	

11. Toxicological Information

Acute Toxicity

Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

Glycol ether solvents (Trade Secret)

Oral LD50 Rat 6500 µL/kg

γ -Butyrolactone (96-48-0)

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

Additive (Trade Secret)

Oral LD50 Rat 40 g/kg Dermal LD50 Rabbit >20 mL/kg

Carbon black (1333-86-4)

Oral LD50 Rat >15400 mg/kg

Information on Likely Routes of Exposure

Inhalation	\div irritation, headache, cancer, dizziness, drowsiness, lung
	damage.
Ingestion	: vomiting, nausea.
Skin Contact	irritation, skin disorders.
Eye Contact	: irritation.
Immediate Effects	eye irritation, central nervous system damage.
Delayed Effects	: lung damage, cancer.
Medical Conditions Aggravated	: No information available for the product.
by Exposure	
Irritation/Corrosivity Data	eye irritation.
Respiratory Sensitization	: No information available for the product.



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Dermal Sensitization : No information available for the product. Germ Cell Mutagenicity : No information available for the product. Carcinogenicity **Component Carcinogenicity** γ -Butyrolactone (96-48-0) IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 11 [1976] (Group 3 (not classifiable)) Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA) (Trade Secret) IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable)) Carbon black (1333-86-4) ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans **LARC:** Monograph 93 [2010]; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans)) DFG: Category 3B (could be carcinogenic for man, inhalable fraction) **OSHA:** Present **Reproductive Toxicity** No information available for the product. Specific Target Organ Toxicity - Single Exposure central nervous system, dizziness, drowsiness. Specific Target Organ Toxicity - Repeated Exposure Lungs. **Aspiration Hazard** No information available for the product. 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 - Aquatic Toxicity

γ -Butyrolactone (96-48-0)						
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						
Mobility	: No information available for the product.					
Persistence and	: No information available for the product.					

Degradability

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Bioaccumulative	: No information available for the product.
Potential	
Other Adverse Effects	: No additional information is available.

13. Disposal Considerations

Disposal Methods	: Dispose in accordance with all applicable regulations.
Component Waste	: The U.S. EPA has not published waste numbers for this product's
Numbers	components.
Disposal of	: Empty containers may contain product residue. Dispose in
Contaminated	accordance with all applicable regulations.
Packaging	

Comply with all USA, national and local regulations.

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

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.						
IATA Information	: Not regulated as dangerous goods for transport.					
ICAO Information	: Not regulated as dangerous goods for transport.					
IMDG Information	: Not regulated as dangerous goods for transport.					
Marine Pollutant	γ -Butyrolactone (96-48-0)					
IBC Code: Category Y						
TDG Information	: Not regulated as dangerous goods for transport.					
US DOT Information	: Not regulated as dangerous goods for transport. *1					
[*] 1 Class combustible liquid (NA1993), Packing group III for quantities of 450 liters (119 gallons) or						

more; not regulated for smaller quantities

15.	Regul	latory	Inf	formation	
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U.S. Federal	: None of this products components are listed under SARA Sections
Regulations	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 311/312	: Acute Health: Ye	es Chronic	Health:	No Fi	re: Yes	Pressure	e: No	
	Reactive: No							
U.S. State Regulations	[:] The following components appear on one or more of the following							
	state hazardous substances lists:							
	Component	CAS	CA	MA	MN	NJ	PA	
	Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes	
California Proposition	WARNIN	G:						
65	This prod	uct can expo	ose you t	o chemi	cals incl	luding Ca	arbon	
	black, which is known to the State of California to cause							
	cancer. For more information go to www.P65Warnings.ca.gov.							
Canada	: WHMIS CLASSIFICATION: B3, D2A, D2B.							
Canadian WHMIS Ingredient Disclosure List (IDL)								
	: Components of this material have been checked against the							
	Canadian WHMIS Ingredients Disclosure List. The List is composed						omposed	
	of chemicals which must be identified on MSDSs if they are included						cluded	
	in products which fall under WHMIS criteria specified in the							
	Controlled Products Regulations and present above the threshold						nold	
	limits listed on th	e IDL.						
	Carbon black (1333-86-4) 1 %							

Chemical Inventory Listings

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Glycol ether solvents	Trade Secret	Yes	NSL	EIN	No	No	Yes	No	Yes	Yes
γ -Butyrolactone	96-48-0	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Chlorinated Ethylene-Vinyl	Trade Secret	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes
Acetate Copolymer (CEVA)										

Component Analysis - Inventory

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; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; 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

Other Information

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