Material Safety Data Sheet (MSDS)

Issue date: Aug. 3, 2011 MSDS#: 11QA0017

Revised date: Feb. 15, 2013 rev. 4

1. Product and Company identification

Product name : Black ink ribbon D

Ink ribbon for LC-2RBP9/LC-3RBP9/LC-4RBP9/LC-5RBP9/LC-6RBP9/LC-7RBP9/LC-6YBP9/LC-7YBP9/LC-4SBM9/LC-4KBM9/LC-2WBN9/LC-3WBN9/LC-4WBN9/LC-5WBN9/LC-6WBN9/LC-7WBN9/LC-2TBN9/LC-3TBN9/LC-4TBN9/LC-5TBN9/LC-6TBN9/LC-7TBN9/LC-3YBW9/LC-4YBW9/LC-5YBW9/LC-3TBW9/LC-4TBW9/LC-5TBW9/LC-3WBW9/LC-4WBW9/LC-5WBW9/LC-5WBW9/LC-5WBC9/LC-7WBC9/LC-4SBE9/LC-5SBE9/

LC-6SBE9/LC-5ZBU1/LC-5SBR1

Company : SEIKO EPSON CORP.

Address : 6925 Tazawa, Toyoshina, Azumino-shi, Nagano-ken

399-8285, Japan

Telephone No. : 0263-87-5814 Fax. No. : 0263-87-5813

E-mail address : takizawa.mitsunori@exc.epson.co.jp Emergency phone number : Giftnotruf Berlin +49(0)30 30686 790

2. Hazards Identification

GHS Classification

This product is not classed as hazardous to health by directive 1999/45/EC

GHS Label Elements Including Precautionary Statements
Not applicable

Other Hazards

No data is available regarding the product itself.

3. Composition/Information on Ingredients

Substance/Mixture :Mixture

General product description: Ink ribbon

Composition	CAS No.	EEC No.	EU registration	% By	EU	EU	EU	Remark
			No.	Weight	Symbols	R-phrase	OELs	
Carbon black	1333-86-4	215-609-9	Not available for	Trade	None	None	None	None
			the moment	secret				
Ethylene	Trade secret	Trade	Not available for	Trade	None	None	None	None
copolymerized		secret	the moment	secret				
resin								
Polyolefin	Trade secret	Trade	Not available for	Trade	None	None	None	None
resin		secret	the moment	secret				
Polyester	Trade secret	Trade	Not available for	Trade	None	None	None	None
Resin		secret	the moment	secret				
Silicon	Trade secret	Trade	Not available for	Trade	None	None	None	None
copolymerized		secret	the moment	secret				
resin								
Polyethylene	25038-59-9	None	Not available for	Trade	None	None	None	None
terephthalate			the moment	secret				
(PET) film								

U.N. classification and number : Not applicable

4. First Aid Measures

Eye contact :Rinse thoroughly with running water immediately.

Then consult an eye specialist.

Skin contact :Wash off with water and soap.

Inhalation :Blow nose and gargle.

Ingestion :Rinse mouth thoroughly with water.

Then consult a physician.

5. Fire-Fighting Measures

Extinguishing method :Use a large volume of water, extinguishing agent.

Extinguishing media :A large volume of water, extinguish agent (powder, bubble),

carbon dioxide.

6. Accidental Release Measures

Collect and recover.

7. Handling and Storage Precautions

Handling :Use in normal temperature, normal humidity and

non-condensing.

Storage :Keep away from high temperature, high humidity, fire, water

leakage, direct sunlight and condensing, store in indoor warehouse in normal temperature and normal humidity.

8. Exposure Controls/ Personal Protection

Control parameters

Exposure limit values:

Substance: Carbon black CAS №: 1333-86-4

	Limit value-	Eight hours	Limit value-Short term			
Country	ppm	mg/m3	ppm	mg/m3		
United Kingdom		3.5		7		
France		3.5				
Germany						
USA-OSHA		3.5		7		

Exposure controls

Appropriate engineering controls: Not applicable

Individual protection measures, such as personal protective equipment:

Use personal protection equipment as per Directive 89/686/EEC.

Eye/face protection : Not applicable in normal conditions of use.

Skin protection

Hand protection : Wear protective gloves when required.

Other skin protection : Wear suitable protective clothing when required.

Respiratory protection : Not applicable in normal conditions of use.

For further information, see section 11 of S.D.S. - Toxicological

information.

Environmental exposure controls: Not applicable in normal conditions of use.

9. Physical and Chemical Properties

Physical appearance, color, etc. :PET film coated black ink in one side wrapped

around center core.

Specific gravity :0.95

Boiling point : <200 degree C

Melting point :250 to 265 degree C (Melting partly at about 135 degree C)

Fusibility :Water: Insoluble

10. Stability and Reactivity

Flash point :>200 degree C

Ignition quality :No (at normal temperature)

Oxidation nature :No

Self-reactive, Explosiveness :No

Dust explosiveness :No

Stability, Reactivity: Stable at normal temperature

11. Toxicological information

Skin Corrosion :No Irritation(Eyes, Skin) :No

Acute toxicity(Including LD50) :No data.

Carcinogenicity :Carbon black IARC group 2B

(Influence on a human body is not confirmed.)

12. Ecological information

Degradability: No data
Accumulative properties: No data
Fish toxicity: No data

13. Disposal Considerations

Product should be disposed in accordance with the regulations issued by the appropriate federal, provincial, state and local authorities.

14. Transport Precautions

Transport careful enough to prevent falling over, drop and cargo collapse. Avoid high temperature, high humidity and condensing in transportation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

15. Applicable regulations

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

Authorisations and/or restrictions on use : Not applicable

Other EU regulations : No data is available

Chemical Safety Assessment :

No Chemical Safety Assessment has been carried out for this mixture.

16. Disclaimer

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. It could be revised by new perception.

Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

<Revision history>

Rev.2 Compliant with GHS.

Rev.3 Revise of applicable regulations

Rev.4 Revise composition table

Material Safety Data Sheet (MSDS)

Issue date: Aug. 3, 2011 MSDS#: 11QA006

Revised date: Feb. 15, 2013 rev.4

17. Product and Company identification

Product name : Metallic receptor tape (Silver, Gold)

Receptor tape for LC-4SBM9/LC-4KBM9

Company : SEIKO EPSON CORP.

Address : 6925 Tazawa, Toyoshina, Azumino-shi, Nagano-ken

399-8285, Japan

Telephone No. : 0263-87-5814 Fax. No. : 0263-87-5813

E-mail address : takizawa.mitsunori@exc.epson.co.jp Emergency phone number : Giftnotruf Berlin +49(0)30 30686 790

18. Hazards Identification

GHS Classification

This product is not classed as hazardous to health by directive 1999/45/EC GHS Label Elements Including Precautionary Statements : Not applicable

Hazard Statement :None
Toxicological information :None
Ecological Information :None

19. Composition/Information on Ingredients

Substance/Mixture :Mixture

	Material name				EU					
Composition	Silver	Gold	CAS No.	EEC No.	registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Coating layer	Polyester series resin		Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Base material	Polyethylene terephthalate (PET) film		25038-59-9	None	Not available for the moment	Trade secret	None	None	None	None
Color layer		Acrylic series ink	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Evaporated layer	Aluminum		7429-90-5	231-072-3	Not available for the moment	Trade secret	None	None	None	None
Primer layer	Polyurethane series resin		Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Adhesive	Acrylic adhesive agent		Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Liner paper	Siliconized polyethylene film		Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Core	Alkyl benzene sulfonate (ABS)		9003-56-9	Trade secret	Not available for the moment	Trade secret	None	None	None	None

UN classification/UN number : Not applicable

20. First Aid Measures

Eye contact :Rinse thoroughly with clean water.

If there is foreign material in eyes or wound or pain consult

an eye specialist.

Skin contact Ingestion

:If irritation or other aberrance happens, consult a physician. : Induce vomiting if possible. If aberrance happens, consult a

physician.

21. Fire-Fighting Measures

Extinguishing method : Use same method as normal fire.

Extinguishing media :A large volume of water, extinguish agent (powder, bubble),

carbon dioxide.

22. Accidental Release Measures

Not necessary.

23. Handling and Storage Precautions

Handling : This tape is for printing.

Do not use for electrical insulation.

Wipe off oil or water on the surface where this tape is stuck

before sticking.

Storage :Keep away from direct sunlight and store in cool place.

24. Exposure Controls/ Personal Protection

Control limit : Not applicable.

Occupational exposure limits : Not applicable. Facility and equipment measures : Not required.

Protective equipment:

Respiratory equipment: Not required.
Safety goggles: Not required.
Protective gloves: Not required.
Protective suit: Not required.

25. Physical and Chemical Properties

Physical appearance, color, etc. : Roll adhesive tape with paper liner, wrapped

around center core.

Specific gravity :No data (1.4 as polyethylene terephthalate)

Melting point :No data (255 degree C as polyethylene terephthalate)

Flash point :No data

Ignition temperature :508 degree C Fusibility :Water: Insoluble

26. Stability and Reactivity

Combustibility :Yes (It will burn, if there is a source of ignition.)

Inflammability :No
Explosiveness :No
Reactivity :No
Stability :Stable

27. Toxicological information

Irritating nature :No
Sensitization :No data
Mutagenicity :No data
Acute toxicity :No data

28. Ecological information

Ozone depleting substance :Not used

Specific brominated flame retardants :Not used

Hormone disrupting chemicals :Not used

Harmful heavy metal :Cadmium, Hexavalent chromium, mercury

(Less than detection limit.)

lead (Equal or less than 30ppm)

Chlorinated compounds :Not used
Degradability :No data
Accumulative properties :No data
Fish toxicity :No data

Disposal prohibition :Do not dispose on the ocean, waterside and

outdoors to prevent a marine organism and birds

from taking it in.

29. Disposal Considerations

Disposal :Nothing

Incineration :Nothing (Incinerate 800 degree C or above.)

30. Transport Precautions

Nothing. Transport as general transported material.

Transport careful enough to prevent falling over, drop and cargo collapse.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

31. Applicable regulations

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

Regulation (EC) No 2037/2000: Is not subject
Regulation (EC) No 850/2004: Is not subject
Regulation (EC) No 689/2008: Is not subject

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

32. Disclaimer

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. It could be revised by new perception.

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