

Safety Data Sheet (SDS)

Issue date: Dec. 17, 2015

MSDS#: 15QA072

Revised date: Jan. 28, 2016

rev. 2

1. Identification of the substance/mixture and of the company/undertaking

Product identifier : Heat resist receptor tape
Receptor tape for LK-4WBH

Details of the supplier of the safety data sheet

Distributor : EPSON EUROPE B.V.
Address : Azie building, Atlas ArenA, Hoogoorddreef
5,1101 BA Amsterdam Zuidoost The Netherlands
www.epson-europe.com

Telephone No. : +31-20-314-5000
Fax. No. : +31-20-314-5100
E-mail address : chemicals@epson-europe.com

Emergency telephone number : Giftnotruf Berlin +49 (0) 30 30686790

2. Hazards Identification

GHS Classification
This product is not classed as flammable.
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

3. Composition/Information on Ingredients

Substance/Mixture :Mixture

| Composition | Material name | Content (%) | EC No. | Symbol | R: | CAS No. |
|---------------|----------------------|--------------|--------------|--------------|--------------|--------------|
| Base material | Polyether imide film | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Adhesive | Acrylic adhesive | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Liner paper | Glassine paper | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Core | ABS resin | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |

U.N. classification and number : Not applicable

4. 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 :If irritation or other aberrance happens, consult a physician.

Ingestion : Induce vomiting if possible. If aberrance happens, consult a physician.

5. Fire-Fighting Measures

Extinguishing method :Use same method as normal fire.
Extinguishing media :A large volume of water, extinguish agent (powder, bubble), carbon dioxide.

6. Accidental Release Measures

Not necessary.

7. 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.

8. 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.

9. Physical and Chemical Properties

Physical appearance, color, etc. : Colored roll adhesive tape with paper liner, wrapped around center core.
- As white colored tape -
Specific gravity :No data (1.27 as surface material)
Melting point :No data
Flash point :No data
Ignition temperature :No data(508 degree C as surface material)
Fusibility :Water: Insoluble

10. Stability and Reactivity

| | |
|----------------|--|
| Combustibility | :Yes (It will burn, if there is a source of ignition.) |
| Inflammability | :No |
| Explosiveness | :No |
| Reactivity | :No |
| Stability | :Stable |

11. Toxicological information

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

12. Ecological information

| | |
|--------------------------------------|--|
| Ozone depleting substance | :Not used |
| Specific brominated flame retardants | :Not used |
| Hormone disrupting chemicals | :Not used |
| Harmful heavy metal | : White ink pigment (in Oxidized titanium) Cadmium, Hexavalent chromium, Mercury (Less than detection limit.) Lead (Equal or less than 30ppm) Others are not used. |
| 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. |

13. Disposal Considerations

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

14. Transport Precautions

| | |
|--|------------------|
| Nothing. Transport as general transported material. | |
| Transport careful enough to prevent falling over, drop and cargo collapse. | |
| UN classification/UN number | : Not applicable |
| 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 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.

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 Revise of the supplier of the safety data sheet

Safety Data Sheet (SDS)

Issue date: Dec. 17, 2015

MSDS#: 15QA080

Revised date: Jan. 28, 2016

rev. 2

17. Identification of the substance/mixture and of the company/undertaking

Product identifier : Black ink ribbon for Heat resist tape
Ink ribbon for LK-4WBH

Details of the supplier of the safety data sheet

Distributor : EPSON EUROPE B.V.

Address : Azie building, Atlas ArenA, Hoogoorddreef
5,1101 BA Amsterdam Zuidoost The Netherlands
www.epson-europe.com

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18. Hazards Identification

GHS Classification

This product is not classed as flammable.

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.

19. Composition/Information on Ingredients

Substance/Mixture : Mixture

General product description : Ink ribbon

| Composition | Content (%) | EC No. | Symbol | R: | CAS No. |
|---------------------------------------|--------------|--------------|----------------|----------------|--------------|
| Carbon black | Trade secret | 215-609-9 | Not classified | Not classified | 1333-86-4 |
| Polyethylene wax | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Polyester Resin | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Synthetic resin | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Calcium carbonate | Trade secret | Trade secret | Trade secret | Trade secret | 471-34-1 |
| Silicon copolymer resin | Trade secret | Trade secret | Trade secret | Trade secret | Trade secret |
| Polyethylene terephthalate (PET) film | Trade secret | Trade secret | Trade secret | Trade secret | 25038-59-9 |

U.N. classification and number : Not applicable

20. 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. |

21. 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. |

22. Accidental Release Measures

Collect and recover.

23. 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. |

24. Exposure Controls/ Personal Protection

Control parameters

Exposure limit values :

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

| Country | Limit value-Eight hours | | Limit value-Short term | |
|----------------|-------------------------|-------------------|------------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| 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.

25. 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 :95 degree C
Fusibility :Water: Insoluble

26. 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

27. 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.)

28. Ecological information

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

29. Disposal Considerations

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

30. 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

31. 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.

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.

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.

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