

HOT MELT GLUE RING 6512

PRODUCT DESCRIPTION

Rubber-based Hot Melt adhesive characterised by good surface adhesion and an elastic, cohesive adhesive film. The high quality of the raw materials used ensures excellent resistance to oxidation, providing stable performance during prolonged use in the melting tank.

FIELD OF APPLICATION

Paper Converting: Hot Melt 6512 is a pressure-sensitive hot melt adhesive with unlimited open time. It is generally used for window patching and for bonding plastic films to paper, such as in the production of bread bags and similar applications.

Bookbinding: It is mainly used for the side gluing of books and magazines on medium- to high-speed production machines, with both nozzle and roller application.

TECHNICAL SPECIFICATIONS

PARAMETER	METHOD	VALUE
Appearance	-	Solid in pillow form
Colour	-	Transparent white
Viscosity at 160°C	Brookfield LVT	1600 – 2400 mPas
Softening point	ASTM E 28-67	85-95°C
Open time	-	Unlimited

*Values shown are indicative only

APPLICATION METHOD

The product is used with roller or nozzle applicators at the following temperatures:

Premelter: 140–160°C

Glue pot: 160–180°C

Increasing or decreasing the temperature from the recommended values will affect the open time. Working at high temperatures for prolonged periods may degrade the chemical structure of the adhesive.

The temperature of both the substrates to be bonded and the working environment must not be lower than +15°C. Lower temperatures than those specified may affect the application properties of the adhesive.

The moisture content of the material may affect bonding performance. It is recommended to use materials with a moisture content between 8% and 10%.

Check the adhesive temperature regularly using a calibrated thermometer.

PACKAGING

The product is available in 15 Kg bags.

STORAGE

The product has a shelf life of **one year** when stored in its original, unopened packaging at room temperature.

Protect from dust and prolonged direct exposure to sunlight.

FOOD CONTACT COMPLIANCE

All the components of this product comply with the requirements of US FDA 21 CFR, Section 175.105, relating to adhesives intended for indirect food contact.



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SAFETY DATA SHEET LCH6512

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product name: Hot Melt Glue Ring LCH6512

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant uses: Multi-purpose adhesive. For professional use only.

Uses advised against: Any use not specified in this Safety Data Sheet or in Section 7.3.

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP):

According to Regulation (EC) No. 1272/2008 (CLP), the product is not classified as hazardous.

2.2 Label elements

Regulation (EC) No. 1272/2008 (CLP):

See Sections 11 and 12.

2.3 Other hazards

Hot material may cause burns. The hazards associated with hot application differ significantly from those that may occur during application at room temperature; the warning sheet indicates the measures to be adopted for risk management in both cases.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical description: Mixture based on waxes, resins and synthetic polymers.

Components: None of the substances constituting the mixture are present above the limits established in Annex II of Regulation (EC) No. 1907/2006.

4. FIRST AID MEASURES

4.1 Description of first aid measures

In the event of feeling unwell, seek medical advice and show this Safety Data Sheet.

Following inhalation: Vapours generated by the hot material may cause irritation of the respiratory system.

Symptoms may include coughing, headache or sore throat. If symptoms occur, move the affected person to fresh air.

Following skin contact: In case of contact, wash the affected area thoroughly with plenty of water and neutral soap. If skin reactions occur (burning sensation, redness, rash, blisters, etc.), seek medical advice and show this Safety Data Sheet. In case of contact with the hot product, cool immediately with cold water, do not attempt to remove the product, and seek medical attention.

Following eye contact: Rinse with water until the product has been completely removed. If irritation persists, seek medical advice and show the product Safety Data Sheet.

Hot product: Vapours may cause eye irritation. Symptoms may include redness, swelling, pain and blurred vision. In the event of a burn, rinse the eyes thoroughly with water, do not attempt to remove the solidified material, and seek medical attention.

Following ingestion/aspiration: In the event of ingestion, seek medical attention.



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4.2 Most important symptoms and effects, both acute and delayed
The acute and delayed effects are indicated in Sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed
Not relevant.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable and presents a low fire risk due to its flammability characteristics under normal conditions of storage, handling and use.

In the event of combustion resulting from improper handling, storage or use, any type of extinguishing agent may be used (ABC powder, water, etc.).

5.2 Special hazards arising from the substance or mixture

Due to its flammability characteristics, the product does not present a fire hazard under normal conditions of storage, handling and use.

5.3 Advice for firefighters

Depending on the severity of the fire, the use of full protective clothing and self-contained breathing apparatus may be required. Minimum emergency facilities or equipment (fire blankets, first aid kit, etc.) should be available in accordance with Directive 89/654/EC.

Additional provisions

Act in accordance with the Internal Emergency Plan and the Information Sheets for action in the event of accidents and other emergencies. Eliminate all sources of ignition. In the event of fire, cool containers and storage tanks containing products liable to ignite, explode or undergo a BLEVE as a result of high temperatures. Prevent the fire-extinguishing media from entering watercourses.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Hot application: Increase ventilation, eliminate ignition sources and allow the product to cool. Collect and recover the product using shovels or other suitable tools and place it in a container for reuse (preferably) or disposal.

6.2 Environmental precautions

The product is not classified as hazardous to the environment.
Keep away from drains, surface waters and groundwater.

6.3 Methods and materials for containment and cleaning up

If the product is in the liquid state, allow it to solidify. It is recommended to collect and recover the product using shovels or other suitable tools and place it in a container for reuse (preferably) or disposal.

6.4 Reference to other sections

See Sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

A- Comply with the current legislation on the prevention of occupational risks.

Keep containers tightly closed. Control spills and residues, removing them using safe methods (Section 6). Avoid free discharge from containers. Maintain good housekeeping and cleanliness in areas where hazardous products are handled.

B - Technical recommendations for the prevention of fires and explosions

Due to its flammability characteristics, the product does not present a fire hazard under normal conditions of storage, handling and use.



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C - Technical recommendations to prevent ergonomic and toxicological risks

Avoid eating or drinking while handling the product and wash thoroughly afterwards using suitable cleaning products.

D - Technical recommendations to prevent environmental risks

No special measures are required to prevent environmental risks. For further information, see Section 6.2.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures for storage

Minimum temperature: 5°C

Maximum temperature: 30°C

Maximum storage time: 12 months

General storage conditions

Avoid heat sources, radiation, static electricity and contact with foodstuffs. For further information, see Section 10.5.

7.3 Specific end uses

Comply with the application temperatures recommended in the technical documentation provided. Except for the instructions already specified, no special recommendations regarding the use of this product are required.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substances whose occupational exposure limit values must be monitored in the working environment (Legislative Decree 81/2008 and subsequent amendments):

Identification		Environmental limit values	
Cyclohexane	VL (6 hours)	100 ppm	350 mg/m ³
CAS: 110-82-7	VL (Short term)		
EC: 203-806-2	Year	2015	2015

Paraffin wax, fumes: OEL-TWA = 2 mg/m³

DNEL (Workers): Not relevant.

DNEL (Population): Not relevant.

PNEC: Not relevant.

8.2 Exposure controls

For hot application, the use of a ventilation system is recommended.

As a preventive measure, the use of basic personal protective equipment bearing the corresponding CE marking is recommended. For further information on personal protective equipment (storage, use, protection class, etc.), consult the instruction leaflet provided by the PPE manufacturer. The information contained in this section refers to the product in its pure form. The protective measures for the diluted product may vary depending on its degree of dilution, use, method of application, etc. To determine whether the installation of emergency showers and/or eye wash stations is required in storage areas, the legislation applicable to the storage of chemical products shall be taken into account in each specific case. For further information, see Sections 7.1 and 7.2.

B - Respiratory protection

Respiratory protective equipment shall be used in the event of mist formation or if the occupational exposure limits are exceeded.



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C – Specific hand protection

Pictogram	PPE	Marking	EC Standards	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace the gloves at the first sign of deterioration. For prolonged exposure to the product by professional/industrial users, the use of Category III CE gloves in accordance with EN 420 and EN 374 is recommended.

Hot application: To prevent burns, wear gloves resistant to the recommended application temperatures.

D – Eye and face protection

Pictogram	PPE	Marking	EC Standards	Remarks
 Mandatory face protection	Safety goggles against liquid splashes		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically in accordance with the manufacturer's instructions.

E – Body protection

Pictogram	PPE	Marking	EC Standards	Remarks
	Working clothing			None
	Slip-resistant work footwear		EN ISO 20347:2012	None

F - Additional emergency measures

No additional emergency measures are required.

Environmental exposure controls

In accordance with Community legislation on environmental protection, it is recommended to avoid the release of the product and its container into the environment. For further information, see Section 7.1.D.

Volatile organic compounds (VOC)

In accordance with Directive 2010/75/EU, this product has the following characteristics:

VOC (Supply): 0.02% by weight

VOC density at 20°C: 0.21 kg/m³ (0.21 g/L)

Average number of carbon atoms: 6

Average molecular weight: 84.2 g/mol



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

For complete information, refer to the product Technical Data Sheet.

Physical appearance

Physical state at 20°C: Solid

Appearance: Not available

Colour: Cream

Odour: Not available

Volatility

Boiling point at atmospheric pressure: Not relevant*

Vapour pressure at 20°C: Not relevant*

Vapour pressure at 50°C: Not relevant*

Evaporation rate at 20°C: Not relevant*

*Not applicable due to the nature of the product; these properties do not provide information regarding its hazardous characteristics.

Product characteristics

Density at 20°C: 990 kg/m³

Relative density at 20°C: 0.99

Dynamic viscosity at 20°C: Not relevant*

Kinematic viscosity at 20°C: Not relevant*

Kinematic viscosity at 40°C: Not relevant*

Concentration: Not relevant*

pH: Not relevant*

Vapour density at 20°C: Not relevant*

n-octanol/water partition coefficient at 20°C: Not relevant*

Water solubility at 20°C: Not relevant*

Solubility properties: Not relevant*

Decomposition temperature: Not relevant*

Melting point / freezing point: Not relevant*

*Not applicable due to the nature of the product; these properties do not provide information regarding its hazardous characteristics.

Flammability

Flash point: Non-flammable (>60°C)

Auto-ignition temperature: 260°C

Lower flammability limit: Not relevant*

Upper flammability limit: Not relevant*

*Not applicable due to the nature of the product; these properties do not provide information regarding its hazardous characteristics.

9.2 Other information

Surface tension at 20°C: Not relevant*

Refractive index: Not relevant*

Viscosity at 120°C: 6300 ± 1200 mPa·s (ASTM D3236, Brookfield, Thermosel system)

*Not applicable due to the nature of the product; these properties do not provide information regarding its hazardous characteristics.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions are expected provided that the technical instructions for the storage of chemical products are observed. See Section 7.

10.2 Chemical stability

Chemically stable under the recommended conditions of storage, handling and use.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected as a result of changes in temperature and/or pressure.

10.4 Conditions to avoid

Applicable to handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Moisture
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

For hot application: avoid temperatures and storage conditions above the recommended values (see the technical documentation). Avoid contact of the product with water during use, as this may cause serious problems.

10.5 Incompatible materials

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Avoid alkalis and bases.

10.6 Hazardous decomposition products

See Sections 10.3, 10.4 and 10.5 for specific information on decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances may be released, including carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral LD₅₀: > 2000 mg/kg (Rat)

Hazardous health effects:

In the event of repeated, prolonged exposure or exposure to concentrations higher than the established occupational exposure limits, adverse health effects may occur depending on the route of exposure.

Ingestion

- Acute toxicity: Based on the available data, the classification criteria are not met.
- Corrosivity/Irritation: Based on the available data, the classification criteria are not met.

Inhalation

- Acute toxicity: Based on the available data, the classification criteria are not met.
- Corrosivity/Irritation: Based on the available data, the classification criteria are not met.

Skin and eye contact

- Skin contact: Based on the available data, the classification criteria are not met.
- Eye contact: Based on the available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and reproductive toxicity)

- Carcinogenicity: Based on the available data, the classification criteria are not met.
- Mutagenic effects: Based on the available data, the classification criteria are not met.
- Reproductive toxicity: Based on the available data, the classification criteria are not met.

Sensitisation effects

- Respiratory: Based on the available data, the classification criteria are not met.
- Skin: Based on the available data, the classification criteria are not met.

Specific target organ toxicity (STOT) – Single exposure

- Based on the available data, the classification criteria are not met.

Specific target organ toxicity (STOT) – Repeated exposure

- Based on the available data, the classification criteria are not met.
- Skin: Based on the available data, the classification criteria are not met.



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Aspiration hazard

- Based on the available data, the classification criteria are not met.

Other information: Not relevant.

Specific toxicological information on the substances: Not available.

12 ECOLOGICAL INFORMATION

No data are available for the mixture.

12.1 Toxicity

Information not available.

12.2 Persistence and degradability

Information not available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Code	Description	Waste type (Regulation (EU) No. 1357/2014)
08 04 10	Waste adhesives and sealants other than those mentioned in 08 04 09	Not dangerous

Waste type (Regulation (EU) No. 1357/2014)

Not relevant.

Waste management (disposal and recovery)

Consult an authorised waste management company for recovery and disposal operations in accordance with Annex I and Annex II of Directive 2008/98/EC (Legislative Decree No. 205/2010).

According to waste codes 15 01 (Decision 2014/955/EU), if the packaging has been in direct contact with the product, it shall be treated in the same way as the product itself; otherwise, it shall be treated as non-hazardous waste. Discharge into watercourses is not recommended. See Section 6.2.

Provisions relating to waste management

In accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH), the relevant Community and national provisions concerning waste management are listed below.

Community legislation: Directive 2008/98/EC, Decision 2014/955/EU, Regulation (EU) No. 1357/2014.

National legislation: Legislative Decree No. 205/2010.



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14 TRANSPORT INFORMATION

Transport of dangerous goods by land

In accordance with ADR 2015 and RID 2015:

14.1 UN Number: not relevant

14.2 UN proper shipping name: not relevant

14.3 Transport hazard class(es): not relevant

14.4 Packing group: not relevant

14.5 Environmental hazards: no

14.6 Special precautions for user:

Special provisions: Not relevant.

Tunnel restriction code: Not relevant.

Physicochemical properties: See Section 9.

LQ: Not relevant.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not relevant

Transport of dangerous goods by sea

In accordance with IMDG 37-14:

14.1 UN Number: not relevant

14.2 UN proper shipping name: not relevant

14.3 Transport hazard class(es): not relevant

Labels: not relevant

14.4 Packing group: not relevant

14.5 Environmental hazards: no

14.6 Special precautions for user:

Special provisions: Not relevant.

EmS code: Not relevant.

Physicochemical properties: See Section 9.

LQ: Not relevant.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not relevant

Transport of dangerous goods by air

In accordance with IATA/ICAO 2015:

14.1 UN Number: not relevant

14.2 UN proper shipping name: not relevant

14.3 Transport hazard class(es): not relevant

Labels: not relevant

14.4 Packing group: not relevant

14.5 Environmental hazards: no

14.6 Special precautions for user:

Physicochemical properties: See Section 9.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not relevant

15 REGULATORY INFORMATION

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

Substances subject to authorisation under Regulation (EC) No. 1907/2006 (REACH):

Not relevant.

Substances included in Annex XIV of REACH (Authorisation List) and sunset date:

Not relevant.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer:

Not relevant.

Article 95 of Regulation (EU) No. 528/2012:

Not relevant.



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Regulation (EU) No. 649/2012 concerning the export and import of hazardous chemicals
Not relevant.

Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII to REACH):
Not relevant.

Other legislation

Legislative Decree No. 205/2010: Implementation of Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

Legislative Decree No. 126/1998: Regulation laying down provisions for the implementation of Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres.

Legislative Decree No. 233/2003: Implementation of Directive 1999/92/EC on the minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

Legislative Decree No. 65/2003: Implementation of Directives 1999/45/EC and 2001/60/EC relating to the classification, packaging and labelling of dangerous preparations.

Legislative Decree No. 186/2011: Penalties for infringements of the provisions of Regulation (EC) No. 1272/2008.

Legislative Decree No. 285/1998: Implementation of Community Directives on the classification, packaging and labelling of dangerous preparations, pursuant to Article 38 of Law No. 128 of 24 April 1998.

Chemical safety assessment

The supplier has not carried out a chemical safety assessment.

16. OTHER INFORMATION

Legislation applicable to Safety Data Sheets

This Safety Data Sheet has been prepared in accordance with Annex II – Guidance on the compilation of Safety Data Sheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 453/2010 and Regulation (EU) No. 2015/830).

Changes compared with the previous Safety Data Sheet affecting risk management measures
Not relevant.

Texts of the legislative phrases referred to in Section 3

The phrases indicated here do not refer to the product itself; they are provided for explanatory purposes only and refer to the individual components listed in Section 3.

Regulation (EC) No. 1272/2008 (CLP)
Not relevant.

Classification procedure
Not relevant.

Training advice

It is recommended that personnel handling this product receive basic training in occupational risk prevention in order to facilitate the understanding and interpretation of this Safety Data Sheet, as well as the product labelling.

Main literature references

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms

- **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road
- **IMDG:** International Maritime Dangerous Goods Code
- **IATA:** International Air Transport Association
- **ICAO:** International Civil Aviation Organization
- **COD:** Chemical Oxygen Demand



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- **BOD₅**: Biological Oxygen Demand after 5 days
- **BCF**: Bioconcentration Factor
- **LD₅₀**: Lethal Dose 50%
- **LC₅₀**: Lethal Concentration 50%
- **EC₅₀**: Effective Concentration 50%
- **Log Pow**: Logarithm of the octanol/water partition coefficient
- **Koc**: Organic carbon partition coefficient

The information contained in this Safety Data Sheet is based on sources, technical knowledge and legislation currently in force at both European and national level. Its accuracy cannot be guaranteed.

This information must not be regarded as a guarantee of the product's properties, but simply as a description of the relevant safety requirements. The working methods and conditions of users of this product are beyond our knowledge and control. It is therefore always the user's ultimate responsibility to take all the necessary measures to comply with the applicable legal requirements concerning the handling, storage, use and disposal of chemical products. The information contained in this Safety Data Sheet refers exclusively to this product, which must not be used for purposes other than those specified.



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