



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
MANUFACTURERS OF LEATHER
J. HEWIT & SONS LTD. EDINBURGH

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HEALTH AND SAFETY AND TECHNICAL INFORMATION

C1 FLEXIBLE GLUE (J733)

Revision Date - May 2011

Specially formulated natural Adhesive of low odour. Its high solids and being fully flexible give it a wide application for bookbinding - both spinework and case making operations.

Whilst like our slower setting/longer open time grade CB4, this grade is ideal for conservation work. It will also be found suitable for some automatic case making machines, giving excellent non-warp characteristics.

It is eminently suitable for use on Balena, Swift and Nubal machines for hand made case making operations.

DIRECTIONS FOR USE

Packed in 2.5kg polythene lined blocks, this adhesive should be turned out of the polythene and cut into 1-2 kilo slabs, before being places in the adhesive trough.

The adhesive should be heated to a temperature of 50-60⁰C (120 – 140⁰F) when it will liquefy and be ready for use. In no circumstances must the heat of the adhesive exceed 60⁰C (140⁰F) otherwise one risks the adhesive becoming degraded.

Being a versatile adhesive, it will probably require dilution for some operations. If evaporation occurs, small quantities of warm water may be added.

In common with all natural adhesives, it is recommended to clean the adhesive troughs regularly to maintain the good quality and preserve the odour and colour of the adhesive.

NB. Increasing the operating temperature to 60⁰C and/or the addition of warm water can lengthen open time of this adhesive.

The adhesive is completely non-foaming and entirely innocuous.

TECHNICAL INFORMATION SHEET

1. IDENTIFICATION OF PRODUCT

PRODUCT: C1 Flex (J733)

2. APPLICATIONS

Manufacture of fancy boxes and laminated boards in the packaging industry by hand & automatic equipment.

3. MACHINES

Deritend, Swift, Balema.

4. PROPERTIES

- ◆ Very clean running. Minimum down time.
- ◆ Non-warp ingredients produce excellent layflat properties.
- ◆ **Meets the requirements of Toy Regulations BS EN71 Part 3 & BS5665 Part 3.**
- ◆ Caters for a wide range of covering materials.
- ◆ **Good initial tack & long open-time.**
- ◆ exceptional quality control produces unrivalled consistency.

5. USING TEMPERATURES

- ◆ Premelt tank at 60°C.
 - ◆ Machine tank at 55°C to 60°C.
- Note: In hot weather temperatures may be reduced by 5°C to 10°C.*

6. TECHNICAL DATA

Solids Content	62 - 66%	Refractometer %
Viscosity	650-900 mPas.	Brookfield RVF, 20RPM, 60°C.

7. DILUTION

- ◆ For difficult papers use neat as received.
- ◆ For less difficult papers up to 20% of water may be added.

8. GENERAL

High solids glues of this type contain the minimum amount of water. Therefore, water lost through evaporation should be replaced on a regular basis. A refractometer can be purchased to help operators maintain a consistent dilution level.

HEALTH & SAFETY

J 733

1. DESIGNATION OF PRODUCT AND COMPANY

1.1 Information concerning the product

Trade name J 733

Product type: Gelatine based glue

1.2 Usage of the mixture

Adhesive

1.3 Information concerning the producer

Producer: DEMCOPACK DAVIS NV
Street Waterstraat 6
Country/ area code/ town B 9160 Lokeren
Telephone 0032 (0) 9/ 340 47 60
Fax 0032 (0) 9 / 348 67 15

2. HAZARDS IDENTIFICATION

2.1. Classification of the product

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

See section 16

2.1.2. Classification according to Directive 1999/45/EC

The product is not classified as hazardous

2.2. Labeling elements

There are no labeling elements

2.3. Other hazards

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Chemical characterization of the main substances

Adhesive bases on colloidal waterbased gelatin solution

3.2. Chemical characterization the preparation

3.2.1. Classification according to Directive 67/548/EC

Einics nr / CAS-Nr component % Symbol R-phrases

None

3.2.2. Classification according to Directive 1272/2008 [CLP/GHS]

Einics nr / CAS-Nr component % Symbol H-phrases

None

4. FIRST-AID MEASURES

4.1 Descriptions of first aid measures

4.1.1 Contact with skin :Wash with plenty of water and soap

4.1.2 Contact with eyes :Wash immediately with water for at least 10 minutes

4.1.3 Swallowing: No immediate danger, contact physician if necessary and present the safety data sheet

4.1.4 Inhalation :Ventilate the premises

4.2 Most important symptoms and effects, both acute and delayed: none

4.3 Indication of any immediate medical attention and special treatment needed: none

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media: large quantities of water, powder, carbon dioxide, foam or spray

5.1.2 Unsuitable extinguishing media: None that are known

5.2 Special hazards arising from the substance or mixture

5.3 Advise for firefighters

5.3.1 Risks arising from combustion: Avoid inhaling the fumes.

5.3.2 Protective equipment: Use protection for the airways such as eye and face protection and breathing apparatus.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Measures for personal safety: use gloves and protective clothing.

6.2 Environmental measures: Limit leaking with earth and sand. If the product has escaped into a water course, into the

drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

6.3 Cleaning methods: If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert

material. After the product has been recovered, rinse the area and materials involved with water

6.4 Other information see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Avoid contact with skin and eyes.

7.1.2 Do not eat, drink and smoke in work areas

7.1.3 Wash hands after use

7.1.4 Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Incompatible materials: None in particular.

7.2.2 Store above 10° C at 20°C max in a dry place

7.2.3 Adequately ventilated premises

7.3 Specific end use

7.3.1 No specific measured required

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Additional instruction concerning the technical installations: none

8.2 Exposure controls

8.2.1 Exposure limit values: none

8.3 Individual protective measures, such as personal protective equipment

8.3.1 Respiratory protection: Not needed for normal use.

8.3.2 Protection for hands: use appropriate gloves

8.3.3 Eye protection: Not needed for normal use.

8.3.4 Protection for skin: No special precaution must be adapted for normal use.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

9.1 Physical and chemical properties

9.1.1 Physical properties

Appearance: gel

Color: white

Odor: Typical

9.1.2 Chemical properties

pH: 6 at 60°C

Boiling point: 100°C (water)

Melting point: 39 °C

Flash point: none

Auto ignition temperature: none

Explosion limits (by volume) : none

Solubility in water: 100% at 45°C

Density: ca 1.3 g/cm³

Viscosity: 650 – 900 mPa.s (60°C) at Q.C

9.2 Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions.

10.2 Chemical stability: stable under normal conditions

10.3 Possibility of hazardous reactions: none

10.4 Conditions to avoid: extreme low and high temperatures

10.5 Incompatible materials: None in particular.

10.6 Substances to avoid:

10.7 Hazardous decomposition products: None as long as it contains water.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information related to the product :

There is no data available on the product itself.

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

11.2 Corrosive /Irritating Properties :

Eye: The product can cause temporary irritation by contact.

11.3 Sensitizing Properties: No effects are known.

11.4 Carcinogenic Effects: No effects are known.

11.5 Mutagenic effects: No effects are known.

11.6 Teratogenic effects: No effects are known.

12 ECOLOGICAL INFORMATION

12.1 Toxicity: No information available

12.2 Persistence and degradability : No information available

12.3 Bioaccumulative potential: No information available

12.4 Mobility in soil: No information available

12.5 Results of PBT and vPvB assessment: Results of PBT and vPvB assessment

12.6 Other adverse effects: Adapt sound working practices, so that the product is not released into the environment.

13 DISPOSAL CONSIDERATIONS

13.1 Product:

Recommendation: disposal of waste according to regulations by incineration in and special waste incinerator. Smaller quantities can be processed in a normal waste incinerator. Observe local regulation.

13.2 Uncleaned packaging:

Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully) packages that are subject to local and / or national provisions should preferably be recycled or destroyed.

14. TRANSPORT INFORMATION

14.1. Transport over land ADR / RID and RID / GGVE:

GGVS / GGVE: -

ADR / RID: -

Warning sign - no hazard:

Dust no:

Name of material:

Notes:

Symbols for transmission:

Express: Allowed

14.2. Barge transport ADN / ADNR: -

Notes:

14.3. Transport by sea IMDG / GGVSea:

IMDG / GGVSea Class: -

Ems - no: -

Marine pollution: no

Correct technical name:

Technical name

Send correct name:

Notes:

Symbols for transmission:

14.4. Air transport ICAO-TI and IATA-DGR

ICAO / IATA Class: -

Correct technical name:

Technical name:

Send correct name:

Notes:

Symbols for transmission:

Packaging requirements: PAC: Max. net. :

: CAO: Max. net. :

Airmail: Allowed

15. REGULARITY INFORMATION

15.1 Classification according to regulation EC:

The approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous preparations according to regulation 1999/45/EC this product is not classified as dangerous.

R and S phrases according to EC regulation:

EG/R:

EG/S:

Regulation 1907/2006/EEC (REACH)

Product safety data sheet according annex I (rev. 1 of ANNEX II of regulation 1907/2006 (REACH) of regulation

453/2010/EC

15.2 Chemical safety assessment

The normal safety regulations when handling chemicals should be observed.

16. OTHER INFORMATION

The receiver / user of J733 is responsible for complying with all laws and regulations relating to its activities

The information contained herein is based on our state of knowledge at the above specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

This safety data sheet is prepared according to Annex II a revision of ordinances 453/2010/EC amending Annex II of REACH

1907/2006/EC

The preparation is not classified as hazardous under Regulation 1272/2008/EC [CLP / GHS]

Journal of issuing sector: LAB

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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