

January 2017

DATA SHEET

Thermelt Knot Filler 813

Thermelt Knot Filler 813 is a filler made from polyamide with a short hardening time. Thermelt Knot Filler 813 is specifically developed for the wood industry and is used in a broad range of wood industries, i.e. windows/doors, flooring, furniture etc.

Thermelt Knot Filler has an excellent adhesiveness on all kinds of wood and all types of wooden surfaces (pine, beech, oak etc.). It is a unique wood repair material that is strong, flexible and durable at the same time, which makes it perfect for the wood industry. The flexibility means that Knot Filler works a bit with the wood, thus providing a little flexible even after hardening.

COMMERCIAL FORMS

- * Extruded sticks/rods with a diameter of 12, 26, and 43mm
- * Pellets/granulate

PHYSICAL FORMS

- | | |
|------------------------------|---|
| * Colours | Knot, White, Ash, Pine, Beech, Oak, and Walnut. |
| * Density | 0.98 |
| * Softening range..... | 154-164°C |
| * Elongation at 23°C | 40-80 % |
| * Tensile strength 23°C..... | 2.5 – 3.5 MPa |
| * Opening time | 60-120 sec. |
| * OAR-Code..... | 00-3 (1993) |

USE

- * Recommended working temperature 160-170°C.
- * “Shoot” the Knot Filler into the damage with a Knot Filler gun.
- * Cool down the repair with a cooling iron for a short while.
- * When cold remove surplus Knot Filler with a cutting tool or a chisel.
- * After sanding, the repair is ready for treatment.

NOTICE!

- * The bag must be sealed carefully after use.

PACKING

- | | |
|--|---|
| * Industrial aluminium bags..... | 9 sticks of 30 cm (in total 270 cm), Ø12 mm |
| * Compact aluminium bags | 8 sticks of 15 cm (in total 120 cm), Ø12 mm |
| * 1 carton box of industrial bags..... | 25 bags |
| * 1 carton box of compact bags..... | 20 bags |
| * 1 sack of granulate..... | 20 kg |

SAFETY DATA SHEET

Thermelt Knot Filler 813

According to Directive 1999/45/EC, 2010/75/EU (VOC), Regulations (EC) Nos 1272/2008 and 1907/2006 (REACH) and CLP 1272/2008

Issued: January 2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

1.1 Product identifier

Product name: THERMELT KNOT FILLER 813

1.2 Relevant information of the substance/mixture and uses advised against

Use: For filling and repair of wood, such as pine, birch etc.

1.3 Details of the supplier of the Safety Data Sheet

Supplier: Wood Repair by Boegh Consult A/S
Charles Lindberghs Vej 6
DK-9430 Vadum, Denmark
Tel: +45-9827 1919
Mail: info@woodrepair.dk
Contact person: Susanne Bøgh

1.4 Emergency telephone number

24H Emergency phone: +45 82121212 Bispebjerg Hospital poisonous line

2. HAZARDS IDENTIFICATION

2.1 Classifications of the product/mixture according to 1272/2008

Not classified

2.2 Classification according to CLP 1272/2008

Not classified

2.3 Other information/dangers:

Safety/dangers: None in solid form. Burn hazards when melted (according to our knowledge the fumes coming from the material when applied do not show any danger). Nevertheless, we recommend use of ventilation at the working place. See §8.

OAR-code: 00-3 (1993)

3. COMPOSITION – INFORMATION ON INGREDIENTS

3.1/2 Ingredients/mixture

Chemical name: Polyamide

3.3 Other information

The full text of all H-danger sentences is shown in section 16. Exposure limits shown in section 8.
VOC-content of Thermelt Knot Filler 813 is 0 % according to the VOC Directive 2010/75/EU.

4. FIRST AID MEASURES

4.1 Description of first aid measures

In general:	Burn hazards when melted (according to our knowledge the fumes coming from the material when applied do not show any danger).
Inhalation:	Seek fresh air if you feel discomfort. See a doctor if you continue to feel discomfort.
Skin contact:	With melted product, rinse with plenty of cold water until pain disappears and continue another 15 min. Do not remove/tear off burnt product, moisturize skin with non-perfumed cream - see a doctor in case of severe burns.
Eye contact:	With melted product, rinse with plenty of cold water immediately. See an ophthalmologist and continue rinsing during transport.
Ingestion:	Not concerned.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptoms

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguish media: All media are usable. Avoid using water jet as it may spread the fire.

5.2 Special hazards arising from the substance/mixture

Specific dangers: In case of high temperatures hazardous decomposition products may occur – Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur oxides, dust and fumes.

5.3 Advice for firefighters

Protection: Use protection clothes and self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Protection person: See section 8

6.2 Environmental precautions

Environment: Prevent any material from entering drains or waterways.

6.3 Methods and material for containment and cleaning up

Cleaning methods: Gather spillage into waste drums or plastic bags. Melted product can be gathered after cooling.

6.4 Reference to other sections

See section 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: This product slightly absorbs moisture from the air, which may cause foaming when the Knot Filler is melted and may result in adequate bonds. Partially used bags should be closed tightly or the remaining Knot Filler should be transferred into an airtight container and kept in a cool dry place. See section 8 for personal protection. Avoid possible inhalation of fumes from melted product. Avoid contact with skin and eyes of melted product.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep in a dry place. Room temperature between 5° - 20°.

7.3 Specific and use(s)

To be used only as specified in Technical Data Sheet plus section 1 of this SDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Exposure limits: No exposure limits for Thermelt Knot Filler.

DNEL/PNEC -

8.2 Exposure controls

Tech. measures: Ensure effective ventilation. Process ventilation recommended.

General: In the event that the working process is covered by the Directive for Work with OAR code numbered products (Labour Inspectorate Directive no. 302/1993) the personal measures must be chosen accordingly. See OAR code number in the Section 2 Hazard identification.
 Smoking, eating or drinking, as well as storage of tobacco, food and drinks not allowed in working area. Wash hands and other exposed areas with mild soap and water before ingestions of food and beverage or smoking, as well as at the end of work. Ensure access to eye rinsing bottle and emergency shower (relevant for melted product). Avoid contact with skin and eyes of melted product.

Personal means: Personal means to be chosen in accordance with current CEN standards and in cooperation with the supplier of personal means.

Inhalation: Ensure process ventilation of working area.

Hand: We recommend use of non-fusible gloves.

Eye: Use protection goggles if risk of contact with melted product. EN 166

Skin: Standard non-fusible working clothes.

Environment: Prevent any material from entering drains or waterways.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state		Colour		Smell
Granules or sticks 12, 26 or 43mm		Knot, White, Ash, Pine, Beech, Oak, Walnut.		Low
Flash point	Boiling point	Vapour pressure 100°C	Density	Melting point
>250°C	-	-	-	-
Ignition	Auto ignition	Softening point	Solubility in water	
-	>250°C	154-164°C	Non-soluble	

9.2 Other information

OAR code: 00-3 (1993).

10. STABILITY AND REACTIVITY

10.1 Reactivity There is no reactivity if used as described in Technical Data Sheet plus section 1.2 of SDS.

10.2 Chemical stability The product is stable if handled as described in Section 7.

- 10.3 Possibility of hazardous reactions** None known
- 10.4 Conditions to avoid** Keep away from strong heat
- 10.5 Incompatible materials** In some cases Thermelt Knot Filler may be affected by 2-K lacquers.
- 10.6 Hazardous decomposition prod.** In case of high temperatures hazardous decomposition products may occur – Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur oxides, dust and fumes. Avoid inhalation

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified.
Skin corrosion/-irritation	Not classified
Serious eye damage/-irritation	Not classified
Respiratory or skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT repeated exposure	Not classified
Aspiration hazard	Not classified
Long-term effects:	Not classified.
Other information	Avoid inhalation of fumes from melted product. However, no hazards of inhalation have been registered.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** Not classified hazardous to environment.
- 12.2 Persistence and degradability** No information available
- 12.3 Bioaccumulative potential** No potential.
- 12.4 Mobility in soil** No information available.
- 12.5 Results of PBT and vPvB assessment** Contains no substances according to the BPT and vPvB criteria.
- 12.6 Other adverse effects** Prevent any material from entering the environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product is considered non-dangerous waste.
Gather residues into waste containers. Destroy according to the rules given by the local/national authorities.
Packaging (card boxes) to be disposed with other cardboard packaging.

14. TRANSPORT INFORMATION

Non-dangerous product.

	ADR/RID	IMDG/IMO
14.1 UN-number	-	-
14.2 UN proper shipping name	-	-
14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-

14.5 Environmental hazard		
MP	-	-
EMS	-	-
14.6 Special precautions for user	-	-
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the BIC Code	-	-
Other information	-	-

15. REGULATORY INFORMATION

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

Ministry of the environment Directive o. 1075 dated 24th November 2011 on classification, packing, labelling, sale and storage of chemical substances and products.

Labour Inspectorate (LI) Directive no. 292 dated April 26th 2001 on Work with substances and material (chemical agents) with changes.

Directive no. 559 dated July 4th 2002 on Specific obligations for producers, suppliers and importers of substances and material in accordance with the Working Environment Act.

LI-Directive no. 507 dated 17th May 2011, with changes.

LI-Guidance 1134-2011 on Exposure limits for substances and materials.

LI-Directive no. 908 dated 27th September 2005 on Measures to prevent risk of Cancer working with substances and material, with changes.

LI- Directive no. 239 dated April 6th 2005 on Youth workers, with changes.

LI-Guidance no. 1309 dated 18th December 2012 on waste disposal.

Defence Ministry Direction no. 17 dated 4th January 2010 on flammable liquids.

LI-Directive no. 301 dated May 13th 1993 on clarification of OAR Code numbers.

Directive no. 48 dated January 13th 2010 on Waste disposal.

EC Directive 1272/2008 (CLP), EC Directive 453/2010 (Update CLP)

EC Directive 1907/2006 (REACH)

EC Directive 2010/75 (VOC)

Further information: OAR code (1993) 00-3

15.2 Chemical safety assessment

No chemical safety assessment has been made for the product.

16. OTHER INFORMATION

16.1 Full wording of H-sentences in section 3:

None mentioned

Personnel to be instructed in correct use of the product. Personnel must read this Safety Data Sheet before using the product including the Technical Data Sheet.

To the best of our knowledge the information given herewith is accurate. However, no liability what so ever is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards that exist.

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