

November 2018

TECHNICAL DATA SHEET

BCD Cleaning oil

The BCD Cleaning oil is a highly refined oil, suitable for cleaning nozzles and tanks of the BCD360 Knot Filler gun or the TR55 Granulate gun.

Use the BCD Cleaning oil to clean and remove polyamide leftovers in nozzles and tank systems. It is easy to use, just let the nozzles soak in the oil and the oil will clean the nozzles for polyamide (PA).

COMMERCIAL FORMS

- * Fluent oil

PHYSICAL FORMS

- * Colours Transparent
- * pH value..... Not accessible
- * Density..... Normally 833 kg/m³ ved 15°C / 59°F

USE

- Soak the nozzles in cleaning oil and it will remove polyamide (PA) leftovers
- *or* Heat up the TR55 Granulate gun
- Empty the tank for Knot Filler granulate
- Fill half of the tank with BCD cleaning oil
- Heat up the TR55 Granulate gun
- Press the trigger and release a small amount of oil → wait 5 minutes → release some more etc. until tanks is completely empty
- Fill up the tank with Knot Filler granulate. Heat up the granulate gun, press the trigger and discard the first portion of granulate as it contains oil residues.



IMPORTANT – BURN HAZARD!

- Please be careful – the BCD Cleaning oil and nozzle will reach very high temperatures.

PACKING

- * Plastic bottle 2.5 litre

SAFETY DATA SHEET

BCD Cleaning oil

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

Issued: November 2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

1.1 Product identifier

Product name: BCD CLEANING OIL

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

Use: To clean nozzles and tank systems for polyamide (PA)

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 Klassificering i henhold til 6775487EEC or 1999/45/EC

Not classified as dangerous product according to EU-rules.

2.4. Other information/dangers:

Other dangers: Prolonged or repeated skin contact without skin cleansing may fill the pores and result in oil acne, folliculitis. Used cleaning oil may contain dangerous impurities. Signs of acne are blackheads and pimples.
 Ingestion may lead to nausea, vomit and/or diarrhoea.

Safety: No fire hazard – though the product will burn.

3. COMPOSITION – INFORMATION ON INGREDIENTS

3.1/2 Ingredients/mixture

Chemical name: White oil Paraffinum liquidum. Highly refined oil with a content of <3% DMSO-extract as per IP346.
 CAS-number: 8042-47-5

3.3 Mix/composition

Product description: The product is not a mixture according to the Directive 1907/2006/EF.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- In general: Burn hazards as the oil and nozzles reach high temperatures (according to our knowledge the fumes coming from the material when heated do not show any danger).
- Inhalation: Seek fresh air if you feel discomfort. See a doctor if you continue to feel discomfort.
- Skin contact: Remove infected clothes and wash the infected area thoroughly with soap and water. Skin cleansing product may be used. DO NOT use solvents or thinner. See a doctor if irritation continues.
- Eye contact: With melted product, rinse with plenty of cold water immediately. See an ophthalmologist and continue rinsing during transport.
- Ingestion: DO NOT try to provoke vomiting. Drink plenty of water. In case of large quantity ingested or prolonged nausea seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated skin contact without skin cleansing may fill the pores and result in oil acne, folliculitis. Used cleaning oil may contain dangerous impurities. Signs of acne are blackheads and pimples. Ingestion may lead to nausea, vomit and/or diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Advice for medical person – symptomatic treatment.

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 – A complex mixture of airborne solid and liquid particles and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

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: Smooth if wasted, clean immediately. 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. Remove spillage with an absorbent material such as clay, sand, or other suitable material and dispose of it properly. Destroy containers in cooperation with local environmental authorities. Clean the area with water and ordinary cleaning products. Avoid

solvents in the cleaning process. Local authorities should be contacted if major spillage can not be invaded.

6.4 Reference to other sections

See section 8 and 13

7. HANDLING AND STORAGE

Generally

Use ventilation if there is a risk of inhalation of vapors, fogs or aerosols. Dispose of contaminated cloths or cleaning material properly to prevent fire. Use the information in this data sheet as input for a risk assessment of local conditions to identify the appropriate methods for the safe handling, storage and disposal of this material.

7.1 Precautions for safe handling

Handling: Avoid prolonged or repeated skin contact. Avoid inhalation of vapor and / or fog. When handling the product in drums, use safety footwear and suitable handling equipment.

7.2 Conditions for safe storage, including any incompatibilities

Storage: The packaging must be closed and properly sealed. Keep in a dry, cool place. Storage temperature between 0° - 50°C / 32° - 122°F.

7.3 Specific and use(s)

Polyethylene containers should not be exposed to high temperatures due to possible risk of deformation. To be used only as specified in Technical Data Sheet plus section 1 of this SDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the value from the American Conference of Governmental Industrial Hygienists (ACGIH) it only counts as a guideline.

8.1 Control parameters

Exposure limits:

Material	Source	Type	ppm	Mg/m3	Notifications
Oil mist, mineral	MAK (DA)	GV [Mist.]		1 mg/m3	-
	ACGIH	TWA [Inhalable fraction.]		5 mg/m3	-

Biological Exposure Index (BEI)

No data accessible

PNEC-related information

The substance is a hydrocarbon with a complex, unknown or varying composition. Traditional methods of derivation of the PNEC are not appropriate and it is not possible to identify a single typical PNEC for such substances.

8.2 Exposure controls

General: The required level of protection and the type of regulation will vary depending on the potential exposure conditions. Choose methods based on a risk assessment of local conditions. Suitable precautions include: adequate ventilation to control concentrations in the air. If the material is heated,

sprayed or faged, there is greater potential for the formation of airborne concentrations.

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: If it is unavoidable that the product is in contact with hands, approved gloves (e.g. according to the following EU standard: EN374 or US standard F739) of the following materials may be used: PVC, neoprene or nitrile rubber gloves. The suitability or durability of a glove depends on the application, e.g. frequency and duration of contact, glove resistance to chemicals, glove thickness, dexterity. Always seek guidance from glove suppliers. Contaminated gloves must be replaced. Personal hygiene is a key element in effective hand care. The gloves may only be worn on bare hands. After use of gloves, wash hands thoroughly and thoroughly. It is recommended to apply an unpasteurized moisturizer.



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

* Appearance	Transparent, fluid.
* Smell	Light hydrocarbon
* pH	Not measurable
* Initial boiling point and boiling range	>280°C / 536°F calculated value(s)
* Pour point	Normally -30°C / -22°F
* Flash point	Normally 235°C / 455°F
* Upper/lower flammability/explosion limit.....	Normally 1-10%(V) (based on mineral oil)
* Auto ignition	> 320°C / 608 °F
* Vapour pressure.....	< 0,5 Pa at 20°C / 68°F (calculated value(s))
* Density	Normally 833 kg/m ³ at 15°C / 59°F
* Solubility water	Vanishing
* Solubility in other solvent	No data accessible
* Partition coefficient: n-octonal / water	> 6 (based on knowledge from similar products)
* Dynamic viscosity	No data accessible
* Kinematic viscosity	Normally 67 mm ² /a at 40°C / 104°F
* Vapour density (air = 1).....	> 1 (calculated value(s))
* Relative evaporation (nBuAc=1)	No data accessible
* Decomposition temperature.....	No data accessible
* Flammability	No data accessible

9.2 Other information

Not accessible

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 Reacts with powerful oxidizing agents

- 10.4 Conditions to avoid** Keep away from strong heat and direct sun light.
- 10.5 Incompatible materials** Powerful oxidizing agents
- 10.6 Hazardous decomposition prod.** It is not expected that hazardous decomposition products will form during normal storage.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Basis of assessment:	The information is based on data on the components and toxicology of similar products
Probable exposure routes:	Contact with skin and eyes is the primary route of exposure, although exposure may occur after accidental ingestion
Acute toxicity, ingestion:	Low toxicity: LD50>5000mg/kg, rat
Acute toxicity, skin:	Low toxicity: LD50>5000mg/kg, rat
Acute toxicity, inhalation:	Low toxicity: LD50>5000mg/kg, rat
Corrosion/skin irritation:	Not irritating to skin. Prolonged or repeated skin contact without adequate cleansing may clog the kin's pores and cause disorders such as oil acne / folliculitis
Severe eye damage/irritation	Not expected to be irritating the eyes
Respiratory irritation	Inhalation of vapors may cause irritation of the respiratory system
Hypersensitivity reaction in respiratory system or on skin	Expected not to cause sensitization by skin contact
Aspiration hazard	Not considered to be harmful to respiratory tract
Mutagenicity in germ cells	Not expected to be mutagenic.
Carcinogenicity	The product contains mineral oils of types that have been shown to be non-carcinogenic by the International Agency for Research on Cancer (IARC)
Specific organ toxicity	Not classified.
Specific organ toxicity	Not expected to be hazardous
Additional Information	Used oils may contain harmful impurities that have accumulated during use. Concentration of such impurities will be dependent on the use and may pose risks to health and environment at disposal. ALT used oil should be handled with caution and contact with skin should be avoided as far as possible.

12. ECOLOGICAL INFORMATION

Basis for assessment

Eco toxicological data have not been determined specifically for this product. The stated information is based on knowledge of the components and similar products' ecotoxicology.

12.1 Toxicity

Acute toxicology:	(LL/EL50 expressed as the nominal amount of product required to produce a water-based test extract). Not expected to be toxic at the water concentration limit.
Fish	Expected to be almost non toxic: LL/EI/IL50 > 100 mg/l
Invertebrate aquatic animals	Expected to be almost non toxic: LL/EI/IL50 > 100 mg/l
Algae	Expected to be almost non toxic: LL/EI/IL50 > 100 mg/l
Microorganisms	Expected to be almost non toxic: LL/EI/IL50 > 100 mg/l

12.2 Persistence and degradability Expected to be biodegradable

12.3 Bioaccumulative potential Can accumulate in nature

12.4 Mobility in soil Liquid under most environmental conditions. Floating on water. If it penetrates into the soil, it absorbs soil particles and will not be mobile.

12.5 Results of PBT and vPvB assessment Contains no substances according to the BPT and vPvB criteria.

12.6 Other adverse effects

Film that is formed on water can affect oxygen transfer and damage to organisms. May cause siphoning of organisms in the aquatic environment.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal of material:	Recover or recycle if possible. Those who create the waste are responsible for determining the toxicity and physical properties of the waste, predicting the correct waste classification and disposal method in accordance with applicable regulations. Do not dispose of in the environment, in sewers or in watercourses.
Disposal of packaging:	Recycling and disposal must be made in accordance with national and local regulations.
Local regulation:	Disposal of material and packaging must be made in accordance with both national and local regulations and also according to the European Waste Catalogue (EWC).

14. TRANSPORT INFORMATION

Non-dangerous product.

Road transport (ADR/RID):

ADR	The material is not classified as dangerous according to ADR
RID	The material is not classified as dangerous according to RID
Domestic transport, water (ADN)	The material is not classified as dangerous according to ADN
Transport sea (IMDG-code)	The material is not classified as dangerous according to IMDG
Transport air (IATA)	The material is not classified as dangerous according to IATA

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)

15.2 Chemical safety assessment

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.

Issued by:

Susanne Bøgh

