SAFETY DATA SHEET
BARTOLINE BOILED LINSEED OIL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name BARTOLINE BOILED LINSEED OIL

Synonyms, Trade Names DOUBLE BOILED LINSEED OIL, BLOWN LINSEED OIL, DOUBLE BOILED LINSEED OIL, LINSEED OIL OXIDIZED.

REACH Registration number 01-2119484875-20-0003

CAS-No. 68649-95-6

EC No. 272-038-8

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

Identified uses INTENDED AS A COATING FOR TIMBER SUBSTRATES

Uses advised against None Identified

1.3. Details of the supplier of the safety data sheet

Supplier

Bartoline limited
Barmston Close
Beverley
East Yorkshire
HU17 0LW
01482 678710
fax 01482 872606
HSE MANAGER
www.bartoline.co.uk

1.4. Emergency telephone number

01482 678727 0800-1700 Monday to Friday

National Emergency Telephone Number

National Poisons Information Service (24hours) 0844 892 0111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

Spills of the oil may constitute a slip hazard

Physical and Chemical Hazards

Rags soaked in oil may spontaneouly ignite (see section 6).

2.2. Label elements

EC No. 272-038-8

Authorisation No. NOT APPLICABLE

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

REACH Registration number	01-2119484875-20-0003
CAS-No.	68649-95-6
EC No.	272-038-8

Ingredient notes

Non-classified vPvB substance.

Composition Comments

The data shown are in accordance with the latest EC Directives. Product of seed oil obtained from linum usitatissimum. linaceae (linseed). Boiled Linseed Oils are produced from Linseed Oil using one or more metallic siccatives to give a range of oils with varying colours and drying times. They are traditionally processed by the controlled oxidation of raw linseed oil. The metallic siccative acts to accelerate the drying process by catalytic means.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

CAUTION! First aid personnel must be aware of own risk during rescue!

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Unlikely route of exposure as the product does not contain volatile substances.

Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation.

No specific symptoms noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

There may be mild irritation at the site of contact.

Eye contact

May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to cool surfaces exposed to fire and protect personnel.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Dangerous combustion products include smoke and oxides of carbon.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

No specific precautions due to the small quantities handled.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Use water SPRAY only to cool containers! Do not put water on leaked material. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. There is a danger that cloths or rags used to clean up a spill, or even any absorbent material may spontaneouly combust. Any cloths should be washed in warm soapy water and disposed of without crumpling. Absorbents should be sprayed with water prior to disposal.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer. Clean contaminated area with oil-removing material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets. Contaminated rags and cloths must be put in fireproof containers for disposal. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Avoid contact with oxidising agents. Store in closed original container at temperatures between 8°C and 28°C.

Storage Class

Unspecified storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Product can be applied with brush or by cloth, all application materials should be washed in warm soapy water and disposed of without crumpling.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

DNEL

Industry	Dermal	Long Term	69.4 mg/kg bw/day	
Consumer	Dermal	Long Term	41.7	mg/kg/day
Industry	Inhalation.	Long Term	49.0 (8 hr exposure day	mg/m3
Consumer	Inhalation.	Long Term	14.4 (24 hr exposure/da	mg/m3
Industry	Oral	Long Term	not relevant	
Consumer	Oral	Long Term	8.33	mg/kg/day

No DNEL data available for this substance.

No PNEC data available for this substance.

BOILED LINSEED OIL (CAS: 68649-95-6)

DNEL

Industry	Dermal	Long Term	Systemic Effects	69.4 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	41.7 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	49.0 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	14.5 mg/m3
Consumer	Oral	Long Term	Systemic Effects	8.33 mg/kg/day

8.2. Exposure controls

Engineering measures

Provide adequate ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use suitable protective gloves if risk of skin contact. Nitrile gloves are recommended.

Eye protection

If risk of splashing, wear safety goggles or face shield.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Brownish.
Odour	Oil smell.
Solubility	Insoluble in water Soluble in: Aromatic solvents Hydrocarbons. Organic solvents.
Initial boiling point and boiling range	>200, 101.3 kPa
Melting point (°C)	No information available. UNKNOWN
Relative density	0.942 - 0.946 15.5
Bulk Density	942 - 946 kg/m3
Vapour density (air=1)	
Not relevant	
Vapour pressure	Negligible
Evaporation rate	
Not relevant	
Evaporation Factor	
Not relevant	
pH-Value, Conc. Solution	
Not relevant	
Viscosity	Approximately 0.8 poise 25
Odour Threshold, Lower	
Not relevant	
Flash point	>100
Auto Ignition Temperature (°C)	Not relevant >200
Flammability Limit - Lower(%)	
Not relevant	
Flammability Limit - Upper(%)	
Not relevant	
Partition Coefficient (N-Octanol/Water)	Kow > 6
Explosive properties	
Not explosive (EC A 9, closed cup)	
Oxidising properties	
Does not meet the criteria for oxidising.	

Comments Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken. Information declared as "Not available, Not relevant or Not applicable" is not considered justified for enabling proper control measures to be taken.

9.2. Other information

Volatile Organic Compound (VOC) 0

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

See section 6 for autoignition hazard of oil soaked rags/absorbents.

10.2. Chemical stability

Stable under normal temperature conditions. Possibility of discolouring with increasing temperature

10.3. Possibility of hazardous reactions

None under normal conditions. Rags soaked with oil may spontaneously ignite. See section 6 and 16.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Acids, alkali and copper Strong oxidising substances.

10.6. Hazardous decomposition products

In case of fire irritating fumes and smoke will be evolved.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No specific data available. Expected to have a very low order of toxicity.

Acute toxicity:

Acute Toxicity (Oral LD50)

> 4790 mg/kg

OECD 401

Acute Toxicity (Dermal LD50)

> 2000 mg/kg

OECD 402

Acute Toxicity (Inhalation LC50)

Not relevant

Not normally applicable due to low vapour pressure at ambient temperature.

Skin Corrosion/Irritation:

Not irritating.

Serious eye damage/irritation:

Not Irritating. OECD 437, BCOP test method and OECD 405, acute eye irritation/corrision.

Respiratory or skin sensitisation:

Not Sensitising.

General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.

Ingestion

No specific health warnings noted.

Skin contact

Prolonged contact may cause dryness of the skin.

Eye contact

May cause temporary eye irritation.

Health Warnings

No specific health warnings noted.

Route of entry

Ingestion. Skin and/or eye contact.

Target Organs

Eyes Gastro-intestinal tract Skin

Medical Symptoms

May cause discomfort if swallowed. Dry skin.

Medical Considerations

Skin disorders and allergies.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

12.1. Toxicity

Acute Fish Toxicity

Fish, Daphnia magna and algae; No acute environmental toxicity is recorded at levls up to the water solubility (1mg/l).

12.2. Persistence and degradability

Degradability

Readily biodegradable (OECD 301B)

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Kow > 6

12.4. Mobility in soil

Mobility:

The product is insoluble in water and will spread on the water surface.

Adsorption/Desorption Coefficient

Soil log Koc > 4.96 @ 20 Degrees C

((Q)SAR for predominantly htdrophobics given in the TGD).

Henry's Law Constant

Not known.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not relevant

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical. Liquid components can be disposed of by incineration.

Waste Class

Waste liquid can be classifed as organic waste with the european waste code 16 03 05. Waste absorbents and wiping cloths contaminated with linseed oil should be classed as waste code 15 02 03.

SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.
Air Transport Notes	Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport Labels

No transport warning sign required.

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing

Control of Pollution Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007). Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Health and Environmental Listings

None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Linseed oil is frequently bottled for general DIY applications. Although the oil itself is not classified as hazardous, every attention must be drawn to the danger of spontaeous combustion and a high profile warning is essential. The following warning is recommended: DANGER OF SPONTANEOUS COMBUSTION. AFTER USE, ANY CLOTHS OR RAGS SHOULD BE WASHED IN WARM SOAPY WATER TO REMOVE THE OIL. EVEN AFTER WASHING THE RAGS MUST NEVER BE CRUMPLED INTO A BALL BUT SPREAD OUT AND DISPOSED OF. USE SYNTHETIC FIBRE CLOTHS WHERE POSSIBLE AS NATURAL FIBRES, ESPECIALLY COTTON, INCREASE THE CHANCES OF SPONTANEOUS COMBUSTION. BRUSHES AND ROLLERS SHOULD BE CLEANED WITH WHITE SPIRIT AND THEN WASHED IN WARM SOAPY WATER.

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Revision	4
Supersedes date	22/03/2013

Risk Phrases In Full

NC	Not classified.