SAFETY DATA SHEET
RAW LINSEED OIL

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

1.1. Product identifier
Product Name           RAW LINSEED OIL
Synonyms, Trade Names  refined Linseed Oil, alkali refined linseed oil
REACH Registration Number  EXEMPT ACCORDING TO ANNEX 5 OF REGULATION 1907/2006
CAS-No.                8001-26-1
EC No.                 232-278-6

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
                        Tel. 01482 678710
                        Fax 01482 872606
                        HSE Manager
                        Email info@bartoline.co.uk

1.4. Emergency telephone number
01482 678727 0800-1700

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Human Health
Spills of the oil may constitute a slip hazard
Physical And Chemical Hazards
Rags soaked in oil may spontaneously ignite (see section 6).

2.2. Label elements
EC No.                   232-278-6
Risk Phrases             NC  Not classified.
Safety Phrases           NC  Not classified.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures
REACH Registration Number  EXEMPT ACCORDING TO ANNEX 5 OF REGULATION 1907/2006
CAS-No.                   8001-26-1
EC No.                    232-278-6
Composition Comments
A naturally occurring triglyceride vegetable oil derived from the seed of the flax plant Linium usitatissimum.
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media
Extinguish with foam, carbon dioxide, dry powder or water fog. 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 Measures In Fire
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 spontaneously 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

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. Use protective gloves made of: Nitrile.
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 at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Coloured liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light (or pale) Brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Oil smell</td>
</tr>
<tr>
<td>Solubility</td>
<td>Immiscible with water Soluble in: Aromatic solvents Hydrocarbons.</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.933 15.5</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>933 kg/m3</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not relevant</td>
</tr>
</tbody>
</table>
RAW LINSEED OIL

Vapour Pressure Negligible
Evaporation Rate Not relevant.
pH-Value, Conc. Solution Not relevant.
Viscosity 0.5 poise 25
Flash Point (°C) >230
Auto Ignition Temperature (°C) Not relevant.
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. Exposure to sunlight may cause a bleaching effect.

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
Inhalation
Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.
Skin Contact
Prolonged contact may cause dryness of the skin.
Eye Contact
May cause temporary eye irritation.
Route of entry
Ingestion. Skin and/or eye contact.
Target Organs
Eyes Skin
Medical Symptoms
Dry skin.

SECTION 12: ECOLOGICAL INFORMATION
RAW LINSEED OIL

Ecotoxicity:
Not regarded as dangerous for the environment.

12.1. Toxicity
Acute Fish Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability
Degradability:
By analogy with rapeseed oil expected to be >98% after 21 days when tested to the OECD 301B method.

12.3. Bioaccumulative potential
Bioaccumulative Potential:
No data available on bioaccumulation.

12.4. Mobility in soil
Henry's Law Constant
Not known.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB Substances.

12.6. Other adverse effects

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 classified 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. Article 4 of Directive 2004/42/EC on the limitation of emissions of volatile organiv compounds due to the use of organic solvents in paints and varnishes indicates that products set out in Annex I must carry a label indicating: The sub category of the product and the relevant VOC limit value in g/l as referred to in annex II; the maximum content content of VOC in g/l of the product in a ready to use condition.

Environmental Listing
Control of Pollution Act 1974.

Statutory Instruments

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

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 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007) Control of Substances Hazardous to Health Regulations 2002 (as amended) 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.

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 spontaneous 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.

Revision Date 14/06/2011
Revision 2
Supersedes Date 26/04/2010
Risk Phrases In Full

Disclaimer
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