



MATERIAL SAFETY DATA SHEET

Revised 14/04/2022

BOILED LINSEED OIL

SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

1.1 Product Identifier

Product/Material: BOILED LINSEED OIL
CAS: 68649-95-6
EC: 272-038-8
Index: Non-applicable
REACH registered number(s): 01-2119484875-20-XXXX

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

Relevant uses: Raw material for the formulation of coatings
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Supplier: R.K. & J. Jones Limited
Address: Southery Road
 Feltwell
 Thetford
 Norfolk
 IP26 4EH, UK.
Telephone: 01842 828101
Fax: 01842 828171
E-mail Address: sales@birdbrand.co.uk

1.4 Emergency telephone number

Emergency telephone: 01223 968282

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification under CLP: The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2. Label elements

Label elements: None according to CLP Regulation (EC) No 1272/2008:

2.3. Other hazards

PBT: Product fails to meet PBT/vPvB criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture based on hydrocarbons and additives

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 68649-95-6 EC: 272-038-8 Index: Non-applicable REACH: 01-2119484875-20-XXXX	Linseed oil, oxidized	Not classified
	Regulation 1272/2008	100 %

3.2 Mixtures

None Applicable:

SECTION 4: FIRST AID MEASURES

4.1. Description of first-aid measures

Consult a doctor in case of discomfort showing the SDS or label for the product.

Skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety data Sheet.

Eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

Ingestion:

In case of consumption in large quantities, it is recommended to seek medical assistance.

Inhalation:

In case of symptoms, move the person affected into fresh air.

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

Acute and delayed effects are indicated in sections 2 and 11.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Immediate / Special treatment Not applicable.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water).

5.2. Special hazards arising from the substance or mixture

Exposure Hazards:

In combustion emits toxic fumes.

5.3. Advise for Fire-fighters

Advice for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit etc) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Isolate leaks provided that there is no additional risk for the people performing this task.

6.2. Environmental precautions

Environmental precautions: This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3. Methods and materials for containment and cleaning up

Cleaning-up procedures: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4. Reference to other sections

Reference to other sections: See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling requirements: Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, Avoid leakages from the container. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: **BOILED LINSEED OIL IS A DRYING OIL. MATERIALS WITH DRYING OIL CAN SELF-IGNITE BY OVERHEATING. LET CLOTHS AND RAGS DRY UNFOLDED OR SOAK WITH WATER.** Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5. Recommended maximum shelf life 24 months.

7.3. Specific end use(s)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limits: There are no occupational exposure limits for the substances contained in the product.

DNEL/PNEC Values

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linseed oil, oxidized CAS: 68649-95-6 EC: 272-038-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	69,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	49 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linseed oil, oxidized CAS: 68649-95-6 EC: 272-038-8	Oral	Non-applicable	Non-applicable	8,33 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	41,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,5 mg/m ³	Non-applicable

PNEC:

Identification					
Linseed oil, oxidized CAS: 68649-95-6 EC: 272-038-8	STP	1,55 mg/L	Fresh water	0,01 mg/L	
	Soil	21,7 mg/kg	Marine water	0,001 mg/L	
	Intermittent	0,1 mg/L	Sediment (Fresh water)	Non-applicable	
	Oral	0,0667 g/kg	Sediment (Marine water)	Non-applicable	



8.2. Exposure controls**Engineering measures:**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding CE marking in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection).



Respiratory protection:

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.



Hand Protection:

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

Eye protection:

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Skin protection:

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

Environmental exposure controls: Avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.

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

Colour:	Yellow-Brown
Physical state at 20 °C:	Liquid
Odour:	Characteristic Odour
Solubility in water:	Insoluble
Boiling Point/range °C:	ca. 300 °C
Vapour pressure at 20 °C:	<1,773E-6 Pa
Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Density at 20 °C:	939 kg/m ³
Relative density at 20 °C:	0,94
Dynamic viscosity at 20 °C:	100 cP
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	-4 °C

Heat of combustion:	Non-applicable *
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	420 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
Refraction index:	Non-applicable *
Oxidising properties:	Non-applicable
Flash point °C:	>163 Deg. C.

9.2. Other information

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2. Chemical stability

Chemical stability: Stable under the conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to Avoid

Conditions to avoid: Heat

10.5. Incompatible Materials

Materials to avoid: Strong acids. Strong oxidising agents. Avoid alkalis or strong bases.

10.6. Hazardous Decomposition Products

Haz. Decomposition Products: See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Dangerous health implications: LD50 oral > 2000 mg/kg (rat)
In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

Ingestion: Acute toxicity : Based on available data, the classification criteria are not met - Corrosivity/Irritability: Based on available data, the classification criteria are not met.

Inhalation: Acute toxicity : Based on available data, the classification criteria are not met- Corrosivity/Irritability: Based on available data, the classification criteria are not met.

Skin contact: Acute effect. Contact with the skin: Based on available data, the classification criteria are not met- Contact with the eyes: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): Based on available data, the classification criteria are not met

Sensitizing effects: Respiratory: Based on available data, the classification criteria are not met - Cutaneous: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT)
- single exposure: Based on available data, the classification criteria are not met
-repeated exposure: Based on available data, the classification criteria are not met

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not available

12.3. Bioaccumulative potential

Bioaccumulative potential: Not available.

12.4. Mobility in Soil

Mobility: Not available.

12.5. Results of PBT and vPvB assessment

PBT Identification: Product fails to meet PBT/vPvB criteria.

12.6. Other adverse effects

Other adverse effects: Not described.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 01 99	wastes not otherwise specified	Non dangerous

Type of waste (Regulation (EU) No 1357/2014): Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport class: This product is not regulated for transport (ADR/RID/IMDG,IATA)

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH):
Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date:
Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer:
Non-applicable

Article 95, REGULATION (EU) No 528/2012:
Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products:
Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):
Non-applicable.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885. Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits. The Waste Regulations 2011, 2011 No. 988

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER HEALTH AND SAFETY INFORMATION**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008: Non-applicable

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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 use.

***Date of MSDS: 14th April 2022
Superseding MSDS of Nov 1st 2017***