

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

<b>GHS Product Identifier</b>	Boester BRO Range
<b>EC INDEX No.</b>	305-871-3
<b>CAS No.</b>	95193-59-2
<b>Alternative names</b>	Blown rapeseed oil, Blown rapeseed oil; Rape oil, oxidized; Oxidation products of seed oil obtained from Brassica napus, Brassicaceae (rapeseed).
<b>REACH Registration No.</b>	01-2119491309-30-0004

**1.2 Relevant identified uses of the substance or mixture and uses advised against Identified use(s) :**

Solvent borne paints, fillers, putties, inks, toners, sealants, lubricants, manufacture of resins.

**Uses advised against** None known.

**1.3 Details of the supplier of the safety data sheet**

<b>Company Identification</b>	Boedal Ltd 11 Portland Street Southampton Hampshire SO14 7EB United Kingdom
	Tel: + 44 (0)2380 089083 Fax: + 44 (0)2380 335784

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**1.4 Emergency telephone number** +44(0)2380 089083 Outside office hours + 41 (0)79 343 7534

**2. SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

<b>Regulation (EC) No. 1272/2008 (CLP).</b>	Not classified as Dangerous according to Regulation (EC) No. 1272/2008 (CLP)
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**2.2 Label elements** None required.

**3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Contains no hazardous ingredients According to Regulation (EC) No. 1272/2008 (CLP).

**4. SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

<b>Inhalation</b>	Remove patient from exposure, keep warm and at rest. Obtain medical attention if ill effects occur.
<b>Skin Contact</b>	Remove contaminated clothing. Wash skin with water. If symptoms develop, obtain medical attention.
<b>Eye Contact</b>	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

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

If skin irritation or rash occurs: Get medical advice/attention.

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

Unlikely to be required but if necessary treat symptomatically.

**5. SECTION 5: FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable Extinguishing Media**

As appropriate for surrounding materials/equipment.

Foam, dry powder, carbon dioxide

**Unsuitable Extinguishing Media**

Water.

**5.2 Special hazards arising from the substance or mixture**

Thermal decomposition will evolve toxic carbon oxides.

**5.3 Advice for fire-fighters**

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**6. SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable gloves and eye/face protection, avoid contact with eyes and skin. Avoid inhalation. Eliminate all ignition sources

**6.2 Environmental precautions**

Do not allow spillages to enter drains, sewers, or watercourses.

**6.3 Methods and material for containment and cleaning up**

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.

**6.4 Reference to other sections**

See Section: 8, 13

**6.5 Additional information**

Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. If absorbed in special oil absorbers, sawdust or clothes, keep in fire-safe place as self-ignition may occur. Therefore, it is advised to only use inert absorbents.

**7. SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Provide adequate ventilation (local exhaust), safety showers and eye wash station near the workplace. Do not allow to enter drains, sewers or watercourses. Keep product away from heat, sparks, flame and other sources of ignition. Use earthed equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep in the original container. Keep container tightly closed in a cool, dry, well-ventilated place. Keep product away from heat, sparks, flame and other sources of ignition and out of direct sunlight.

Packaging material : Plastic; carbon steel; aluminium.

**7.3 Specific end use(s)**

None

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

No Occupational Exposure Limit Assigned

<b>DNEL / DMEL</b>	<b>Oral</b>	<b>Inhalation</b>	<b>Dermal</b>
Industry - Long Term - Local effects	-	-	-
Industry - Long Term - Systemic effects	-	49 mg/m3	69.4 mg/kg
Industry - Short term - Local effects	-	-	-
Industry - Short term - Systemic effects	-	-	-
Consumer. - Long Term - Local effects	-	-	-
Consumer. - Long Term - Systemic effects	8.33 mg/kg bw/day	14.5 mg/m3	41.7 mg/kg
Consumer. - Short term - Local effects	-	-	-
Consumer. - Short term - Systemic effects	-	-	-

Environment	PNEC
Aquatic Compartment (including sediment)	PNEC Not determined. PNEC STP: 10 mg/L; Assessment factor: 10
Terrestrial Compartment	No data
Atmospheric Compartment	No data.

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation where operational procedures demand it. Use appropriate containment to avoid environmental contamination.

### Personal Protection

#### Eye/face protection

Safety goggles or full-face shield where splashing is possible.

#### Skin protection

Good working practice suggests protective suit, chemical-resistant gloves and goggles should be worn. The following materials are suitable for protective gloves: Neoprene/nitrile rubber/rubber.  
Wash hands and face before breaks and immediately after handling the product. When using, do not eat, drink, or smoke. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

#### Respiratory protection

Due to the extreme low vapor pressure, it is not regarded as needed in any situation.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical

#### Properties

Form	viscous liquid
Colour	yellowish / brownish
Odour	no characteristic odour
Boiling Temperature (°C)	n/a; decomposition takes place starting from 350°C (OECD 103)
Melting/Freezing Temperature (Deg C)	-49 to -1°C at 1013 hPa (OECD 102)
Flash point (°C) (COC)	188°C at 1019 hPa (EC A.9; closed cup)
Flammable Limits	Non-flammable.
Auto Ignition Temperature (Deg C)	420°C at 1015 hPa (EC A.15).
Explosive Properties	Non-explosive (EC A.14).
Vapour Pressure (Pascals)	< 0.000000013 Pa at 20°C (OECD 104)
Relative Density at 20°C	0.939 (OECD 109)
Solubility (Water)	< 1 mg/L at 20°C (OECD 105).
Partition Coefficient (n-Octanol/water)	> 6 at 20°C (OECD 107)
Viscosity (20°C)	The substance is manufactured in different viscosities, from just below 100 mPa*s, up to a viscosity of 100 Pa*s.
Acid value (mg KOH/g)	Max 20
Decomposition Temperature (Deg C)	350°C (623 K)
Additional properties	n/a

### 9.2 Other information

None

## 10. SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Non-reactive

### 10.2 Chemical Stability

Stable at ambient temperatures.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

In very fine dispersion in contact with air possible danger of self-ignition.

### 10.5 Incompatible materials

Oxidizing agents. Strong acids and strong bases

### 10.6 Hazardous Decomposition Product(s)

Oxides of carbon

**11. SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects***Test result / data*

<b>Acute oral toxicity</b>	LD50: >4985 mg/kg bw (OECD 401)
<b>Acute dermal toxicity</b>	LD50: >2000 mg/kg bw (OECD 402)
<b>Skin irritation.</b>	Not irritating (OECD 431).
<b>Eye damage/irritation</b>	Not irritating (OECD 437)
<b>Skin Sensitization</b>	Not sensitizing (OECD 429).
<b>Sub-acute toxicity</b>	Oral gavage (rat): NOAEL >1000 mg/kg bw/day (OECD 422)
<b>Germ cell mutagenicity</b>	No data
<b>Mutagenicity</b>	Negative (OECD 471,473,476).
<b>Reproductive toxicity</b>	No adverse effect observed - route : oral (OECD 422)
<b>Carcinogenicity</b>	No data

**12. SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Fish:	LC50 > 500 mg / L (OECD 203, 96 h)
Daphnia magna:	EC50 > 100 mg/L (OECD 202, 48 h)
Algae:	ErC50 > 10 mg/L (OECD 201, 72 h)
Inhibition of microbial activity :	NOEC > 100 mg/L (OECD 209, 3 h)

**12.2 Persistence and degradability**

Readily biodegradable.

**12.3 Bio-accumulative potential**

Octanol-water partition coefficient (Kow):	>6
Bioconcentration factor (BCF):	No data

**12.4 Mobility in soil**

Absorption coefficient : log Koc &gt; 4.96 at 20°C

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Other adverse effects**

None known.

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

Do not discharge into drains or the environment, dispose to an authorized waste collection point.

**13.2 Additional information**

Disposal should be in accordance with local, state or national legislation.

**14. SECTION 14: TRANSPORT INFORMATION**

Not Classified as Dangerous for Transport.

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

Not Classified as Dangerous for Supply/Use.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment (CSA) has been completed for this substance.

**16. SECTION 16: OTHER INFORMATION****Indication of changes**

None

**LEGEND**

PBT Persistent, Bioaccumulative and Toxic  
vPvB very Persistent very Bioaccumulative

**Further information**

Information in this publication is believed to be accurate and is given in good faith, but it is for the Customer to satisfy itself of the suitability for its own particular purpose. Accordingly, Boedal Limited gives no warranty as to the fitness of the Product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. Freedom under Patent, Copyright and Designs cannot be assumed.

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