

# MATERIAL SAFETY DATA SHEET.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: **Borage oil**

SUPPLIER: Amphora Norfolk Trading, 1 Rigby's Crt, Norwich, NR2 1NT, UK

Telephone +44 (0)1603 610883

## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

Definition/Botanical Origin: Borage oil is obtained from the seed of *Borago officinalis* by pressing and/or extracting and subsequent refining.

<b>H-No:</b>	N/A	<b>CAS No:</b>	84012-16-8	<b>Status:</b>	natural
<b>CoE No:</b>	N/A	<b>FEMA:</b>	N/A	<b>Additives:</b>	none
<b>FDA:</b>	N/A	<b>IFRA:</b>	Not restricted	<b>Application:</b>	N/A
<b>RIFM:</b>	N/A	<b>EINECS:</b>	281-661-4	<b>RTECS:</b>	N/A
<b>INCI name:</b>	Borago officinalis			<b>FCCIV:</b>	N/A

## 3. HAZARDS IDENTIFICATION:

Concentrated product. Observe good housekeeping procedures.

## 4. FIRST-AID MEASURES:

INHALATION:	No vapours present at normal temperatures.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.
SKIN CONTACT:	Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION:	Not considered dangerous. Edible quality.
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15)

## 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED:	Use CO <sub>2</sub> , Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES:	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES:	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## **6. ACCIDENTAL RELEASE MEASURES.**

PERSONAL PRECAUTIONS:	Avoid contact with skin eyes and clothes. Note that spillages constitute a slipping hazard. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS:	Keep away from drains, soils, surface & groundwaters.
CLEANING UP METHODS FOR SPILLAGES:	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Clean with hot water & detergents. Observe state, federal & local disposal regulations.

## **7. HANDLING & STORAGE.**

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Avoid static discharges.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool & dry area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION.**

RESPIRATORY PROTECTION:	No special measures under normal conditions.
HAND PROTECTION:	No special measures under normal conditions.
EYE PROTECTION:	Use safety glasses if there is a risk of splashing.
WORK/HYGIENE PRACTICES:	Wash hands with soap & water after handling.

## **9. PHYSICAL & CHEMICAL PROPERTIES.**

COLOUR:	Yellow to golden yellow
APPEARANCE:	Liquid at ambient temperatures
ODOUR:	Free from rancid and foreign odours
FLASH-POINT °C:	>300
SPECIFIC GRAVITY @ 20°C:	0.9150 to 0.9350
REFRACTIVE INDEX @ 20°C:	1.4700 to 1.4900
SOLUBILITY IN WATER:	Insoluble
SOLUBILITY IN ALCOHOL:	Soluble
PEROXIDE VALUE (meq O <sub>2</sub> / kg):	5.0 max
MOISTURE %:	0.1max

## **10. STABILITY & REACTIVITY.**

REACTIVITY:	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
DECOMPOSITION:	None (thermal decomposition products are H <sub>2</sub> O and CO <sub>2</sub> )

## **11. TOXICOLOGICAL INFORMATION.**

No known data

## **12. ECOLOGICAL INFORMATION.**

BIODEGRADABILITY:	Readily biodegradable
PRECAUTIONS:	Prevent surface contamination of soil, ground & surface water.

### **13. DISPOSAL CONSIDERATIONS.**

Avoid disposing to drainage systems and into the environment. Seek expert advice.

### **14. TRANSPORT REGULATIONS.**

Road (ADR/RID): N/A  
AIR (IATA): N/A  
SEA (IMDG): N/A

### **15. REGULATORY INFORMATION.** According to Directive 88/379/EEC

HAZARDS: N/A  
SYMBOLS: N/A  
RISK PHRASES: N/A  
SAFETY PHRASES: N/A

### **16. OTHER INFORMATION.**

#### **PACKAGING:**

<b>Type</b>	<b>Suitability</b>
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	Yes
F/HDPE	Yes
Other plastic	Yes

#### **SHELF-LIFE**

Min 12 months when stored within advised conditions.

#### **Q.C. REQUIREMENTS.**

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

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