

# MATERIAL SAFETY DATA SHEET.

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

Product name: **Evening Primrose Oil min 9% GLA O344**

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

Telephone +44 (0)1603 610883.

## **2. COMPOSITION / INFORMATION ON INGREDIENTS.**

DEFINITION/BOTANICAL ORIGIN: Evening Primrose oil is cold pressed from the seeds of *Oenothera biennis*.

Customs tariff: 3301.29.50.50 CAS No: 90028-663

Status: natural

CoE No: no

FEMA: no

Additives: none

FDA: no

IFRA: not restricted

Application: N/A

RIFM: no monograph

EINECS: 289-859-2

RTECS: N/A

INCI name: OENOTHERA BIENNIS

FCCIV: no

## **3. HAZARDS IDENTIFICATION:**

Concentrated product. Do not ingest. Observe good housekeeping procedures.

## **4. FIRST-AID MEASURES:**

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT: Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.

INGESTION: Rinse mouth out with water. Seek medical advice **immediately**.

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 of 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 inhalation & direct contact with skin & eyes. 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, or sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

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

PRECAUTIONS IN HANDLING : Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

STORAGE CONDITIONS : Store in tightly closed original container, in a cool, dry & ventilated 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 : Avoid breathing product vapour. Apply local ventilation where possible.

VENTILATION : Ensure good ventilation of working area.

HAND PROTECTION : Avoid all skin contact. Use chemically resistant gloves if required.

EYE PROTECTION : Use safety glasses.

WORK/HYGIENE PRACTICES : Wash hands with soap & water after handling.

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

COLOUR:	Yellow
APPEARANCE :	Slightly viscous liquid
FLAVOUR:	
FLASH-POINT °C :	>290°C
FIRE-POINT °C:	>320°C
DENSITY @ 25°C:	922kg/m <sup>3</sup>
REFRACTIVE INDEX @ 20°C:	1.4650 to 1.4675
COLOUR (1" LOVIBOND):	4.9
SOLUBILITY IN 90% ETHANOL @ 20°C:	
SOLUBILITY IN VEGETABLE OILS:	Soluble
SOLUBILITY IN WATER:	Insoluble
ADDITIONAL DATA:	Soluble in acetone/hexane.
GLA content: min 9%	
Iodine value (by calculn):	138 to 160
Acid Index:	< 2.0
Peroxide value:	< 5.0 meq/Kg.
FATTY ACID PROFILE:	PALMITIC: 6.2%
	STEARIC: 2.0%
	OLEIC: 8.2%
	LINOLEIC: 73.5%
	GAMMA-LINOLENIC: 9.3%
	ALPHA-LINOLENIC: 0.3%
	ICOSANOIC: 0.3%
	ICOSENOIC: 0.2%

## **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. Rancidity hastened by increased temperature, light and oxygen.

DECOMPOSITION : Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed. May ignite at temperatures close to flash-point.

### **11. TOXICOLOGICAL INFORMATION.**

Non-toxic. Food grade product. No adverse effects of over-exposure known.

### **12. ECOLOGICAL INFORMATION.**

BIODEGRADABILITY : Fully biodegradable, closed bottle test (OECD 301D).

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

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

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

Road (ADR/RID) : Not classified  
AIR (IATA) : Not classified  
SEA (IMDG) : Not classified

### **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.**

Conc. % Limits:

#### **PACKAGING:**

<b>Type</b>	<b>Suitability</b>
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

#### **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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