

# MATERIAL SAFETY DATA SHEET

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

Product name: **GRAPEFRUIT SEED EXTRACT**

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

Telephone: +44 (0)1603 610883.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

Definition/Botanical Origin: A broad spectrum antimicrobial compound produced from the seeds and pulp of grapefruit.

H-No: N/A	CAS No: 90045-43-5	Status: Natural Preservative
CoE No: N/A	FEMA: N/A	Additives: Glycerin - USP
FDA: 21 CFR 182.20	IFRA: N/A	Application: As required *
RIFM: N/A	EINECS: N/A	RTECS: N/A
INCI name: Grapefruit Extract	FCCIV: N/A	

\* **Food:** Preservative & antioxidant.

**Cosmetics:** Preservative & antimicrobial

## 3. HAZARDS IDENTIFICATION:

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

## 4. FIRST-AID MEASURES:

INHALATION: Remove from exposure site to fresh air. Seek medical attention if any irritation persists.

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. Drink plenty of fluids to dilute.

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 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.**

Appearance: Viscous mobile liquid

Colour (Gardner): 2, Lemon Yellow

Odour: Characteristic, Mild Citrus

Specific Gravity at 20°C: 1.110

Flash Point: >100°C

pH ( 25°C ): 2.0 – 3.0

Solubility: Water, alcohol and organic solvents

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

REACTIVITY : It presents no significant reactivity hazards, by itself or in contact with water. Avoid extreme heat and contact with strong acids, alkali or oxidising agents.

DECOMPOSITION : Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## **11. TOXICOLOGICAL INFORMATION.**

LD50 oral – rat over 5000mg/kg live body weight.

## **12. ECOLOGICAL INFORMATION.**

This product is unlikely to accumulate in the environment and environmental problems under normal use conditions are not expected.

## **13. DISPOSAL CONSIDERATIONS.**

Dispose of according to local regulations.

Avoid disposing into drainage systems and into the environment.

## **14. TRANSPORT REGULATIONS.**

Road (ADR/RID): N/A

AIR (IATA) : N/A

SEA (IMDG) : N/A

**15. REGULATORY INFORMATION.**

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

**16. OTHER INFORMATION.**

For Minimum Inhibitory limits see page 4.

**PACKAGING:**

Type	Suitability
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.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

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