

**SAFETY DATA SHEET**

**SECTION 1. IDENTIFICATION**
**1.1 Name of the product** Nerthus Fructus

**1.2 Other identification means** Non-existent

**1.3 Recommended use of the product** Fertilizer

**1.4 Supplier's information**

 Company: Neptunus Biotech Ltd  
 Greenheys building unit 51, Manchester Science  
 Park, United Kingdom M156JJ

e-mail: info@neptunusbiotech.com

Telephone number: 01 (844) 488 5211 / 488 2627

**1.5 Emergency Telephone number** 800-718-4350

**SECTION 2. HAZARDS IDENTIFICATION**
**2.1 Classification of the product**  
 Health Hazard

**2.2 Label elements**
Signal word: WARNING

- Toxic if inhaled (Category 4)
- Toxic in case of ingestion (Category 5)
- May be harmful in contact with the skin (Category 5)
- Causes eye irritation (Category 2B)


**2.2.1 Hazard statements**
**H303:** Toxic in case of ingestion

**H313:** May be harmful in contact with the skin

**H332:** Toxic if inhaled

**H320:** Causes eye irritation

**2.2.3 Precautionary statement(s)**
**P270:** Do not eat, smoke or drink while using the product

**P301+P330+P331:** IF INGESTED: Call Poison Control Center or seek medical attention

**P305+P351:** In case of eye irritation rinse with water carefully.

**P411:** Store at temperatures not exceeding 30°C.

**2.3 Hazards not otherwise classified**  
 None

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance mixture

Components	CAS	%	No. UN	LMPE-PT, LMPE-CT, LMPE-P
Potassium thiosulfate	10294-66-3	85-90%	NA	NA
Microalgae extract	NA	7.0 %	NA	NA
Urea	57-13-6	9.0 %	NA	NA

**SECTION 4. FIRST AID MEASURES**
**4.1 General recommendations.** Get medical attention immediately. Show this safety data sheet to the physician on duty.

**4.2 Eye contact.** Remove contact lenses and rinse thoroughly with water for at least 15 minutes. Get medical attention immediately

**4.3 Skin contact.** Immediately remove contaminated clothing and shoes. Wash off with soap and plenty of water. Discard contaminated clothing and shoes or wash before reuse. Get medical attention if discomfort persist

**4.4 Ingestion.** Get medical attention immediately or call the poison control center. Rinse mouth. **DO NOT INDUCE VOMITING.** If vomiting occurs naturally, lie the affected person on their side.

**4.5 Inhalation.** If fumes have been inhaled in the event of a fire, move the person to fresh air. Get medical attention immediately or call the poison control center. If breathing has stopped, perform artificial respiration.

**SECTION 5. FIRE-FIGHTING MEASURES**
**5.1 Fire extinguishing methods**

Sprayed water	Foam	CO <sub>2</sub>	Chemical powder	Others
X	X	X	X	X

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

During combustion, containers may release toxic gases such as carbon monoxide, carbon dioxide, ammonia, phosphorus oxide.

**5.3 Recommendations for personnel in charge of firefighting**

Ensure that firefighting equipment is in good working order and that it is located at strategic points that are easily accessible in the production plant.

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

 Wear safety glasses and gloves  
 Personal protective equipment  
 Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not allow the product to enter the sewage system

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

- Minor spill or leak: absorb with compatible non-combustible absorbent material (clay, sand, etc.), then wash down the area with soap and water
- Mayor spill or leak: collect and place the product in recovery containers for subsequent disposal at authorized facilities in accordance with local Regulations

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions to ensure safe handling**

Avoid direct contact with eyes and skin

**7.2 Conditions for safe storage**

- Always store in the original container, tightly closed and labeled
- Store in a cool, dry, well-ventilated area at 25-30° C, away from heat and sources of ignition.

**SECTION 8. EXPOSURE CONTROL/PERSONEL PROTECTION****8.1 Control parameters**

NA

**8.2 Appropriate technical controls**

Handle with appropriate precautions and follow safety practices. Wash your hands before breaks and after the end of the workday

**8.3 Individual Protection equipment**

Eye/face protection. Wear close-fitting protective goggles.

Skin protection. Handle with impermeable gloves (butyl rubber). Dispose of contaminated gloves after their use accordingly to applicable local Regulations. Wash and dry hands

Body protection. Butyl rubber overalls/boots if there is a risk of spill or leakage

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Dark green liquid
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	No data available
<b>pH at 1 %</b>	6.0 - 7.5
<b>Melting point</b>	Not applicable
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	1.25 – 1.40 g/mL
<b>Solubility</b>	Water soluble
<b>Spontaneous ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Molecular weight</b>	No data available
<b>Other relevant data</b>	No data available

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

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Prolonged exposure to direct sunlight or heat (>98°F) or sources of ignition, static energy.

**10.5 Incompatible materials**

Incompatible with strong oxidants.

**10.6 Hazardous decomposition products**

See section 5.2

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Acute toxicity**

<b>Oral for rat DL<sub>50</sub>:</b>	2,686 mg/kg
<b>Inhalation for rat CL<sub>50</sub>:</b>	2.89 mg/L of air 4 h
<b>Derma for rat DL<sub>50</sub>:</b>	2,213 mg/kg

**11.2 Additional information**

No data available.

**SECTION 12. ECOTOXICOLOGICAL INFORMATION****12.1 Toxicity**

<b>Fish CL<sub>50</sub>:</b>	854 mg/L 96 h
<b>Algae CER<sub>50</sub>:</b>	109 mg/L 72 h
<b>Invertebrates EC<sub>50</sub>:</b>	107 mg/L 48 h

**12.2 Persistence and degradability**

The product is biodegradable.

**12.3 Bioaccumulation**

No data available

**12.4 Ground mobility**

No data available

**12.5 Other adverse effects**

No data available

**SECCIÓN 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN**

Avoid contamination of water supplies; cover drinking fountains when applying near areas where livestock or domestic animals are kept

Wash empty containers three times before destroying them, and add the rinses to the application tank; the dispose of empty containers in accordance with the regulations of the general law on ecological balance and Environmental Protection regarding hazardous waste.

**SECTION 14 . TRANSPORT INFORMATION**

<b>14.1 UN number</b>	Non-hazardous merchandise
<b>14.2 Official transport designation UN</b>	Non-hazardous merchandise
<b>14.3 IMO danger class</b>	Non-hazardous merchandise
<b>14.4 Packaging group</b>	Non-hazardous merchandise

Before loading the vehicle, you must check for splinters or nails that could damage the packaging material and ensure the vehicle is covered to avoid contact with rain or direct sunlight. This must comply with the Regulations for the land, sea, and air transportation of hazardous materials and waste

#### SECTION 15. REGULATORY INFORMATION

##### **Components SARA 302**

This product does not contain chemical components subject to the reporting requirements of SARA Title III, section 302.

##### **Components SARA 313**

This product does not contain any chemical components with known CAS numbers that exceed the threshold levels (De Minimis) established by SARA title III, section 313

##### **Components SARA 311/312**

Acute health Hazard, Environmental Hazard.

#### SECTION 16. OTHER INFORMATION

The information is considered accurate, but is not exhaustive and is intended to be used solely as a guideline. It is based on current knowledge of the chemical or mixture and is applicable to the appropriate safety precautions for the product.

All information and data presented in this safety data Sheet are accurate and reliable. However, it is the user's responsibility to determine the safety, toxicity, and appropriateness of the product described. Since use by third parties is beyond our control, no express or implied warranty is made. The use assumes all risks and responsibilities.