

Shephaster -2340 -Technical data Sheet

(Emulsifier for Vegetable Oil)

Shepard SA now offers a very efficient **single-component emulsifier** called **Shephaster -2340** for **vegetable oil/mineral oil formulations**. The product is derived from **vegetable oil origin**, and is **non-toxic** and **biodegradable**. This provides an advantage over emulsifiers based on **Nonyl Phenol** or **Octyl Phenol Ethoxylates**.

Key Features:

- **Oil-soluble emulsifier** and **strong lubricity agent** for **metalworking fluids**
- Produces a **very low foaming emulsion**
- **Reduces the need for antifoam** in formulations
- Enhances **metalworking properties** of vegetable oil-based lubricants
- Has a **positive effect on corrosion inhibition**, but using a **suitable rust inhibitor** is still recommended when formulating metalworking fluids

Specifications:

Parameter	Specification
Appearance @ 20°C	Clear Liquid
Colour (Gardner)	12 Max
Acid Value	20 Max (10–14 typical)
Solubility (20% in Vegetable Oil)	Clear & No Separation
Emulsion (5% oil solution in DI water)	Stable

General Product Data:

- **Density @ 20°C:** approx. 0.93 g/ml
- **Refractive Index n^{20}_D :** approx. 1.472
- **Solidification Point:** < -10°C
- **pH Value (2% in DI water):** 6–8
- **Flash Point:** approx. 278°C
- **Ignition Point:** approx. 370°C

Applications:

- **Vegetable oil-based metalworking fluids**
- **Emulsion hydraulic fluids**
- **Emulsifier for Trimethylolpropane (TMP) & other polyol esters** (e.g., TMP Oleate, TMP Caprylate)

Let me know if you'd like this reformatted into a table, a Word document, or tailored for marketing, technical data sheet, or presentation use.