

# LACTUCA MS 5000-S



METALWORKING  
LUBRICATION



**Bio-resistant macro-emulsion for machining copper alloys and mild steels**

## APPLICATIONS

**Soluble oil for mild steels and copper alloys**

**Rust preventive**

- **LACTUCA MS 5000-S** is a macro-emulsion containing an effective biocide. It is specifically designed for the conventional machining of copper alloys and screw cutting brasses. It is also fully satisfactory for all processes involving fine carbon steels. Recommended proportions: 3 to 6 %.
- Temporary protection of mechanical parts, machined or not, where easy removal of the rust preventive is required.

## SPECIFICATION

**ISO 6743/7 Category L MAA**

## ADVANTAGES

**Very easy to use**

**Excellent resistance to bacterial growth**

- Very easy to use: simply pour **LACTUCA MS 5000-S** into good quality water.
- Forms stable emulsion
- Excellent resistance to bacterial growth
- Good corrosion resistance of machined parts
- Excellent anti-foaming properties.
- Non-staining

## CHARACTERISTICS

TYPICAL CHARACTERISTICS LACTUCA MS 5000-S	
Color ASTM D 1500	4.45
Viscosity at 40 °C, cSt ASTM D 445	23.2
Specific gravity @ 60/60°F ASTM D 1298	0.887
Flash point, COC, °F (°C) ASTM D 92	395 (203)
Emulsion stability, 24 hr modified ASTM D 3707	Slight ring - no oil Slight ring - no oil
A. 5% oil in distilled water	
B. 5% oil in 340 ppm CaCO <sub>3</sub>	
Pour point, °F (°C) ASTM D-97	+10 (-12)

## HANDLING OPERATIONS-HEALTH & SAFETY

**LACTUCA MS 5000-S** contains no chlorine, nitrites, phenol or PTBB, NPE, DEA. It is produced from virgin, solvent-refined base oil, and has a distinctive odor due to the biocide.

**TOTAL Specialties USA, Inc.**

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LACTUCA

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at [www.totalspecialties.com](http://www.totalspecialties.com). Copyright 2016 All rights reserved.