

## *MAXUS MSQ PREMIUM METALWORKING FLUID*

**MAXUS MSQ** is a polyalkylene glycol/ester-based cutting and grinding fluid and is part of our new MAXUS group of metalworking lubricants.

**MAXUS MSQ**, when diluted with water, exhibits excellent cooling properties for superior finishes and increased tool life. **MAXUS MSQ** provides exceptional E.P. performance characteristics in a variety of machine operations on ferrous materials. While free of chlorine; and free of formaldehyde-releasing biocides / amines, **MSQ** remains oil-rejecting and runs cleaner in machine tools. **MSQ** earns very high marks in operator acceptance.

**MAXUS MSQ** remains highly transparent to afford the machine operator full view of the work. Unlike many synthetics, the **MSQ** remains fluid in and on the surfaces of the machining center allowing slideways, chucks, and tooling to work freely without a hard-to-clean, dry residue. The translucent dilution is non-foaming, and retains its oil rejecting characteristics in both soft and hard water. These and related traits compel the **MSQ** to be an excellent choice in central coolant recovery systems where undiminishing filterability and rapid tramp oil separation is a contingency for favorable fluid recovery.

The effective biostatic system formulated into the **MSQ** yields a higher resistance to microbial degradation and rancidity than conventional fluids; this allows for longer coolant life in machine sumps and central coolant systems without special maintenance procedures.

### Recommended Starting Dilutions

Machining - drilling, turning, milling, tapping, boring, and reaming  
1 : 20 ( 5% ) to 1 : 6 ( 16% )

Grinding/Sawing - centerless, surface, cylindrical, internal, band  
1 : 20 ( 5% ) to 1 : 8 ( 12% )

### Concentration Check

Concentration	1:20 (5%)	1:17 (6%)	1:14 (7%)	1:12 (8%)	1:11 (9%)	1:10 (10%)	1:8 (12%)	1:7 (14%)	1:6 (16%)
Refractometer Reading (Brix Scale)	2.0	2.4	2.8	3.2	3.6	4.0	4.8	5.6	6.4

Refractometer constant= 2.5 (reading x 2.5 = % MSQ)

## MAXUS MSQ Performance Advantages

- + Unique Tool / Wheel Performance - Excellent cooling properties and extreme pressure lubricity combine to provide extended tool life.
- + Excellent Cleanliness – Remains transparent ; good settling properties provide for ease of contaminant removal; low foaming; No hard-to-remove residue on machine surfaces. Good choice for central recovery systems.
- +Exceptional Corrosion Control - Prevents in-process corrosion of work pieces and machine tool parts.
- +Long Life - More tolerant of hard water and tramp oils and has a high resistance to rancidity for longer sump life.
- +High operator acceptance.
- +Formulated for enhanced environmental acceptance.

## Typical Physical Characteristics

Weight, (lb.s / gal.)	.	.	.	.	.	8.75
Specific Gravity, 60/60F	.	.	.	.	.	1.05
Flash Point, COC F	.	.	.	.	.	none
pH, fresh,1:20 (5%) dilution	.	.	.	.	.	9.8
Color, dilution	.	.	.	.	.	homogeneous/opaque
Color, concentrate	.	.	.	.	.	undyed standard, available blue,red

## Packaging

MAXUS MSQ is available in 55 gallon steel drums, totes and bulk quantities.

### Shipping Identification / Labeling:

CHEMICAL / RUST PREVENTIVE COMPOUNDS  
CLASS 65 NFM 50234. NOT DOT REGULATED  
Label: Amine based compound - Possible eye irritant due to alkalinity in concentrate. Water-diluted material is not expected to be primary eye irritant when used as recommended. Read and understand Material Safety Data Sheet before handling or disposing of this product.

<b>HMIS</b>	
<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>C</b>

Please ask your Maxim Metalworking Lubricants representative for information on other products from the MAXUS line. The new generation of chemically compatible high performance metalworking fluids, slideway lubricants, and tapping fluids. MAXUS is "Cutting Edge Chemistry".

**DISCLAIMER** Information contained herein is believed to be correct and reliable. However, Maxim Petrochemical Corporation does not assume liability for it or for recommendations of our representatives inasmuch as conditions and methods of use are beyond our control. Further, we make no warranty, expressed or implied, of any kind regarding those products or their use and purchaser assumes all risks of use or handling either in accordance with directions or not.

**MANUFACTURER DISCLAIMER** The information and recommendations contained herein are, to the best of the knowledge and belief of Maxim Petrochemical Corporation, accurate and reliable as of the date issued. Maxim does not warrant or guarantee their reliability, and Maxim shall not be liable for any loss or damage arising out of use thereof. The information and recommendations are for the user's consideration and examination. Conditions of use are beyond Maxim's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risk of their use, handling, and disposal of the product(s). This information relates only to the product(s) designated herein and does not relate to its use in combination with any other material or in any other process.

For additional information, product samples, etc., please contact;  
MAXIM OIL & CHEMICAL COMPANY  
Fort Worth, Texas, 76140 - (817) 293-4645  
www.maximoil.com