

# VULSOL MSF 5200



*Metalworking*

**Synthetic cutting fluid for ferrous and hard metals grinding.**

## UTILISATIONS

- **VULSOL MSF 5200** is suitable for grinding all ferrous and hard metals.
- **VULSOL MSF 5200** is especially well-suited for grinding rolling cylinders.
- Recommended rate of use: 3 - 4%.

## SPECIFICATIONS

ISO 6743/7

- ISO-L-MAG

## ADVANTAGES

- **VULSOL MSF** is very easy to use, simply by pouring it into good quality water.
- Excellent cooling and lubricant power.
- Efficient protection of machined parts and machines against corrosion.
- Good mechanical performances, providing:
  - Reduced cutting efforts
  - Extended tool lifetime
  - Very good surface finish to parts.
- Properties in service:
  - Excellent stability over time increases drain intervals;
  - Cuttings have low rate of humidity;
  - Good anti-foaming properties.
- Resist to the development of bacteria and mould very well, so is more environmentally and operator friendly.
- Very good separation of tramp oils and settling of sludges.
- Very good detergent power.

## HEALTH AND SAFETY

- Does not contain: formaldehyde liberators or boron.
- Is free of: chlorine, PTBB, nitrite, NPE and DEA.

**TOTAL LUBRICANTS**  
**Industry & Specialties**  
12-04-2011 (supersedes 19-11-2007)  
VULSOL MSF 5200  
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.  
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).



TYPICAL CHARACTERISTICS	METHODS	UNITS	VULSOL MSF 5200	
			Concentrate	Solution at 5%
Density at 15°C	DIN 51 575	kg/m <sup>3</sup>	1088	
Viscosity at 40°C	DIN 51 562	mm <sup>2</sup> /s	8	
pH at 5%	DIN 51 369	-		9.2
Refractometric factor	-	-	1.4	

Above characteristics are mean values given as an information.

## RECOMMENDATIONS FOR USE

- To ensure good conservation of the fluid's properties through time and thus increase its lifetime, we recommend:
  - Regular monitoring of the concentration of the bath with a refractometer. Do not forget to multiply the reading value by the refractometric factor.
  - Regular monitoring of the pH of the emulsion and the hardness of the water.
- Total offers its clients a regular laboratory fluid analysis service:  
*SOLUBLE CHECK.*  
Get in touch with your sales contact to obtain further information.
- Before using any fluid for the first time or before each change, we recommend cleaning the machine with a specific cleaning product:  
*CONTRAM CB 3.*
- If punctual top-ups of Biocide are required, Total offers an efficient product:  
*EBOTEC BT 80.*

Your sales and technical contacts are ready to provide you further information.