

# VULSOL MS 5000



*Metalworking*



**Synthetic chlorine-free fluid forming a real aqueous solution for grinding processes.**

## UTILISATIONS

- **VULSOL MS 5000** is specially designed for grinding ferrous metals.
- Recommended proportions: grinding : 3 to 5%.

## SPECIFICATIONS

ISO 6743/7

- ISO-L MAG

## ADVANTAGES

- The excellent wetting and cooling capabilities mean improved tolerances and better surface finish on machined parts.
- Excellent corrosion protection of machine parts and machines.
- Very easy to use: simply pour **VULSOL MS 5000** into good quality water.
- Excellent stability over time.
- Non-foaming.
- Natural resistance to bacterial growth.

## HANDLING OPERATIONS - HEALTH - SAFETY

- **VULSOL MS 5000** has no particular smell and contains no phenols, nitrites, PTBB, chlorine or diethanolamine (DEA).
- **VULSOL MS 5000** satisfies the German TRGS 611 legislation (technical rules governing the handling of hazardous substances).

TYPICAL CHARACTERISTICS	METHODS	UNITS	VULSOL MS 5000	
			CONCENTRATE	5 % SOLUTION
Appearance	Visual		clear	
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	1118	
Kinematic viscosity at 20°C	ISO 3104	mm <sup>2</sup> /s	11.1	
Appearance	Visual			opalescent
pH	NF T 60 193			9.2
Refractometric correction factor			1.71	

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**

23 september 2002 (supersedes 3 august 2001)

VULSOL MS 5000

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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).

