

# SERADE SYSTEM CLEANER



*Metalworking*

**TOTAL**

Formaldehyde free system cleaner for machine tools.

## APPLICATIONS

- **SERADE SYSTEM CLEANER** has been developed especially for the cleaning of machine tools before draining and substitution of water-soluble metalworking fluid (bath).
- **SERADE SYSTEM CLEANER** is recommended for the cleaning of single units and central systems.
- Recommended proportions : 1 - 2 % depending on level of contamination;
- After addition of **SERADE SYSTEM CLEANER** it is possible to continue machining without interruption for 8 - 48 hours. If the machining is stopped, a turnover time of minimum 8 hours or even more is recommended. After draining, the system should be flushed carefully with a high-diluted mixture of water and the metalworking fluid concentrate.

## ADVANTAGES

- **SERADE SYSTEM CLEANER** is based on surfactants that remove sludge and residues in the entire metalworking fluid circuit (machine tool, pipes, tank(s), etc.)
- **SERADE SYSTEM CLEANER** ensures that the fresh bath will not be affected by the contaminants of the replaced bath.

## HANDLING OPERATIONS - HEALTH - SAFETY

- **SERADE SYSTEM CLEANER** is free of formaldehydes.
- Use the personnel protection according to the Material Safety Data Sheet (MSDS).

TYPICAL CHARACTERISTICS	METHODS	UNITS	SERADE SYSTEM CLEANER
Appearance	Visual	-	Clear
Colour	Visual	-	Light brown
Density at 20°C	ASTM D 7042	kg/m <sup>3</sup>	1022
Viscosity at 40°C	ASTM D 7042	cSt	1.98
Flash point (Open Cup)	ASTM D 92	°C	NA
pH (concentrate)	Internal	-	10.5

Above characteristics are mean values given as an information.

The **SERADE** range consists of post-treatment additives. Used at the right time, based on the recommendations of your technical advisor, these additives allow you to extend the life of your soluble cutting fluid baths in service.

Do not hesitate to call your sales contact for further information.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
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SERADE SYSTEM CLEANER  
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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. is obtainable via your commercial adviser [www.quick-fds.com](http://www.quick-fds.com).