

## Machine Cleaner

*Aqueous Cleaning Concentrate*

### HIGHLIGHTS

- Non Butyl
- Solvent Free
- Rapid oil rejection
- Sodium Hydroxide Free
- Aggressive oil emulsification
- Removes odor causing organic life forms
- Highly Dilutable

### GENERAL DESCRIPTION

Hangsterfer's Machine Cleaner is designed for dilution with water for various cleaning applications. Machine Cleaner delivers excellent results when used as an individual sump or central system cleaning product.

Machine Cleaner contains select ingredients that rapidly emulsify the heaviest of build ups caused from the normal day to day running of water soluble metal working solutions. Its unique formula allows these oils and greases to rapidly emulsify and keeps them in this state as the system is recirculating. This creates a continuous cleaning action that helps to flush out the coolant feed lines as well as increase the efficiency of feed pumps. Additional ingredients effectively remove organic life forms associated with rancidity, fungus, mold, and yeast.

### INSTRUCTIONS

Machine Cleaner should be mixed at 5% to 10%, 6 to 13 ounces per gallon for effective machine sump/ system cleaning. **Do not add Machine Cleaner to your existing coolant.** Drain coolant sump, removing all visible chips, swarf and foreign material. Add mixed Machine Cleaner to your sump or system at the desired concentration. Add sufficient Machine Cleaner solution so that the pumps will prime and feed the total coolant system. Recirculation time should be a minimum of 15 minutes. Use auxiliary spray hose to wash down inside of machine center cabinet. A spray and wipe technique may be used for exterior surfaces close to control board and other sensitive areas. Never spray Machine Cleaner directly on to electrical controls, etc. Pump out Machine Cleaner and thoroughly rinse system with 2% solution of coolant to prevent rust. Rinse all surfaces with this weak solution. Recharge system with mixed Hangsterfer's coolant at the correct concentration.

Application	Concentration
Machine Sump Cleaner	5%-10%
All Purpose Cleaner	2%-5%

***\*Diluted with water, Machine Cleaner works as a machine sump cleaner and as an all purpose cleaner solution.***

<b>PRODUCT CHARACTERISTICS:</b>	<b>Machine Cleaner</b>
Form	Liquid
Color	Colorless
Odor	Mild
Specific Gravity	1.05
<b>Viscosity: SUS @ 100°</b>	<b>33</b>
<b>cSt @ 40°C</b>	<b>2.1</b>
Flash Point, COC, °F/°C	Not Flammable
Fire Point, COC, °F/°C	Not Flammable
Pour Point, COC, °F/°C	Not Tested
Solubility in Water	100%
Boiling Point, °F/°C	155.4/68.6
Vapor Pressure, mm Hg @ 25°	10.02psi
pH @ 10%	11.9

## SHIPPING UNITS

Machine Cleaner is available in 1 gallon, 5 gallon, 55 gallon and Intermediate Bulk Containers (275 or 330 gallons). All products are distributed worldwide.

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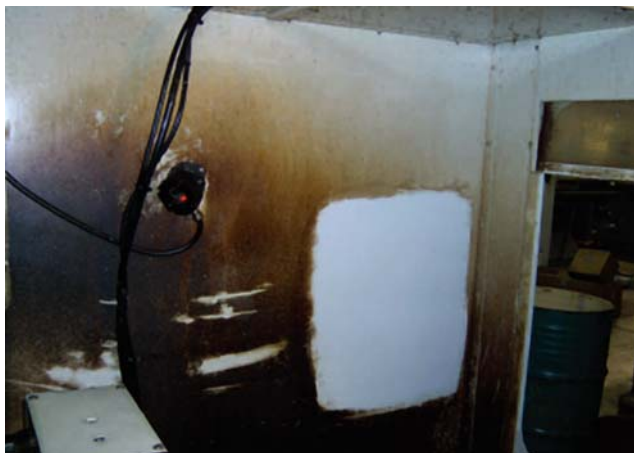
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## **MACHINE CLEANER** **Aqueous Cleaning Concentrate**

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**Photo: Area cleaned with Hangsterfer's Machine Cleaner Application Concentration**



**Application**  
Machine Sump Cleaner  
All Purpose Cleaner

**Concentration**  
5% - 10%  
2% - 5%

### **HIGHLIGHTS**

- Non-Butyl
- Rapid Oil Emulsification
- Highly Dilutable
- Solvent Free
- Sodium Hydroxide Free
- Multi-Use
- Removes Odor Causing Organic Life Forms

### **BENEFITS**

- Economical to use
- No offensive chemical odors
- A true machine/system cleaning product that may also be used as a general purpose spray and wipe cleaner, or hot or cold pressure wash cleaner
- Regular scheduled use will remove both chemical and oil build-ups from machine tool sump system, pumps, and delivery lines, as well as keep the working area clean.

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**Disclaimer:** All reasonable care has been taken to ensure that the information contained in this publication is true and accurate. No warranty is expressed or implied regarding the accuracy of the data. Also, seller is not liable for any loss, damage or liability resulting from the use of the product in the buyer's manufacturing processes or in combination with other substances.