

## Clean All *Aqueous Cleaning Concentrate*

### FEATURES

- Biodegradable
- Excellent Corrosion Control
- Excellent for High Pressure Systems
- High Pressure Capable to 2000 psi
- Low Foam
- Non-Hazardous
- Non-Toxic
- Rust and Corrosion Inhibitors

### GENERAL DESCRIPTION

Hangsterfer's Clean All is designed for dilution with water for various cleaning applications. Clean All has a three component cleaning technology, which consists of oil soluble detergents, water soluble detergents and emulsifiers. These components quickly remove dirt, oil, grease and other residues.

Clean All's neutral pH minimizes the risk of staining or tarnishing on parts or machine components. In addition, it contains corrosion and rust inhibitors, which allow for maximum protection of metal surfaces. Clean All is engineered to be low foaming while still producing a high cleaning action in many areas where other inferior technologies cannot be used, including high temperature applications.

Clean All's unique chemistry can meet many of the most difficult technical cleaning requirements for the most difficult applications. Because of Clean All's high solvent action, spot testing should be conducted on materials before use.

### APPLICATIONS

Automated Floor Cleaning	Hot Dip Tanks
Cleaning	Machine Tool Flushing, Cleanout
High-Agitation Systems	Parts Washer
High-Temperature Applications	Ultrasonic Tanks

### MATERIALS

Primary			Secondary
Aluminum	Stainless Steel	Tin	Plastic
Iron, Cast Iron, Ductile	Steel	Zinc	

### INSTRUCTIONS

Clean All should be mixed at 5% to 10% for effective machine sump/ system cleaning. Do Not Add Clean All To Your Existing Coolant. Drain coolant sump and add mixed Clean All to your sump system at the desired concentration. Add sufficient Clean All solution so that the pumps will prime and feed the total coolant system. Recirculation time should be a minimum of 30 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 Clean All directly onto electrical controls, etc. Pump out Clean All and rinse system with water or a weak dilution of the coolant. Recharge system with mixed Hangsterfer's coolant at the correct concentration.

**LIVETOOLS®**  
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OPERATION	CONCENTRATION		
	%	Ratio Concentrate: Water	* Refractometer
Machine Sump Cleaner	5% - 10%	1:20 – 1:10	1 - 2
Parts Washer	2% - 15%	1:50 – 1:70	0.25 - 3
All Purpose Cleaner and Automated Floor Cleaning Equipment	2% - 5%	1:50 – 1:20	0.25 - 1
Ultrasonic Cleaning Equipment	2% - 15%	1:50 – 1:70	0.25 - 3
High-Pressure Cleaning Equipment	2% - 10%	1:50 – 1:10	0.25 - 2
High-Agitation Systems	2% - 10%	1:50 – 1:10	0.25 - 2
High-Temperature Applications	2% - 10%	1:50 – 1:10	0.25 - 2

\* **Refractive index multiplier = 6.6, and is suggested readings given can be rounded up for ease of use. If more accurate monitoring is required a Specific Gravity Hydrometer should be used. Diluted with water, Clean All works as a machine sump cleaner, in parts washer systems and as an All-purpose cleaner solution.**

PRODUCT CHARACTERISTICS: Clean All	
Form	Liquid
Color	Golden
Odor	Mild
Specific Gravity	1.04
<b>Viscosity: SUS @ 100°</b>	<b>16</b>
<b>cSt @ 40°C</b>	<b>1</b>
Flash Point, COC, °F/°C	N/F
Fire Point, COC, °F/°C	N/F
Pour Point, COC, °F/°C	30 / -1
Solubility in Water	100%
Boiling Point, °F/°C	212 / 100
Vapor Pressure, mm Hg @ 25°	<0.1
pH @ 10%	7.6

## WASTE TREATMENT

Dispose of in accordance with local, state, federal and international laws. If and when it is necessary to dispose of waste fluid, the amount of waste can be greatly reduced by separating the water from the oil and contaminants which accumulate through normal use. You can often reduce your waste disposal by more than 80% through conventional methods such as Ultra-Filtration, Chemical Treatment or Evaporation. After approval by your local, state or federal authorities, the waste water may be sent to the sewer or discharged into waters, and the separated oils may be removed for recycling, sale or disposal.

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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. The general description, recommended uses, application data and statements in the product literature are guidelines. Because this product may be used for a variety of applications over which Hangsterfer's Laboratories, Inc. has no control, Hangsterfer's Laboratories, Inc. assumes no liability for incidental, consequential, or direct damages of any kind, regardless of causes, including negligence. 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. SDS's are available for all Hangsterfer's products and should be consulted as needed.

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