

## T.C. 832

### Alkaline Cleaner

#### PRIMARY APPLICATION

A specially formulated blend of highly effective surface-active agents, chelating agents and alkali salts, T.C. 832 quickly wets out the toughest residues.

The mildly alkaline liquid detergent contains no solvents, gives off no objectionable odors. It is the ideal detergent for use on food processing equipment. Suitable for all metals, T.C. 832 is particularly effective on stainless steel. In addition to removing existing soil, regular use of T.C. 832 enhances the appearance of stainless equipment.

#### CHEMICAL CHARACTERISTICS

Chemical composition	Synthetic surfactants, chelating agents and alkalis
Physical form	As received: light amber liquid As used: clear solution
Odor	Slight, unobjectionable
Specific gravity	1.060 ± 0.005 at 20°C (68°F)
Bulk density	1056 g/l (8.8 lb/gal) at 20°C (68°F)
Viscosity	150-160 cps, Brookfield Spindle 3, 60 rpm
Flash point	None
Foaming tendency	High
Recommended diluent	Water
Maximum solubility	Complete
Behavior in hard water	Chelates
Rinsability	Good under all conditions
Biodegradable	Yes
Phosphate-free	Yes
Normal working concentrations	3.9 to 15.6 ml/l (1/2 to 2 fl oz/gal)
Normal working temperatures	27° to 82°C (80° to 180°F)
pH at working concentrations	10.5 to 10.7
Effect of prolonged boiling	Diluent will boil off

Effect of working solution  
on metals

Rate of metal loss from 24-hour immersion  
in T.C. 832 at 2% by volume, 49°C  
(120°F), projected for one year, is as  
follows:

<u>Metal (Alloy)</u>	<u>Millimeters/Year</u>		<u>Inches Per Year</u>
stainless steel	0.00		0.000
steel (1010)	0.05		0.002
copper	0.00		0.000
brass	0.03	tarnish	0.001
aluminum	0.00		0.000
magnesium	0.05	tarnish	0.002
zinc	0.08		0.003

### **APPLICATION PROCEDURE**

T.C. 832 is used at concentrations of 3.9 to 15.6 ml/l (1/2 to 2 fl oz/gal) of water, at temperatures from 27° to 82°C (80° to 180°F). Mop, wipe, brush, or mechanically spray on detergent solution, and rinse with clean water.

### **NOTES ON USE**

Where soak tank cleaning methods are used, solution tanks and heating coils should be constructed of steel.

**Safety and Handling Precautions:** T.C. 832 is a moderately alkaline material. Direct contact causes irritation of eyes. Prolonged skin contact may cause irritation. It is harmful if swallowed. Do not get in eyes. Avoid prolonged skin contact. Wash thoroughly after using. Do not take internally.

**First Aid in Case of Contact:** For eyes, flush with plenty of water for at least 15 minutes; get medical attention. For skin, flush with plenty of water. If swallowed, drink plenty of water followed by dilute vinegar, lemon juice, or other citrus fruit juice. Contact a physician.

KEEP OUT OF REACH OF CHILDREN.

### **DISPOSAL**

Generally, T.C. 832 does not present a disposal problem. Where required, neutralize with spent acid solutions.

### **PACKAGING**

Packaged in 55-gallon steel drums.

### **SHIPMENT**

May be shipped by any common carrier. Freight classification is "Cleaning Compound, NOIBN, Liquid."

**STORAGE**

Suitable for general storage at moderate temperatures. Keep from freezing. Keep container closed when not in use.

Effect of high temperature storage

Some sedimentation may occur

Effect of low temperature storage

Will freeze at 0°C (32°F), contents  
are restored by warming

Effect of aging

Some sedimentation may occur