

T.C. 819

Alkaline Cleaner

PRIMARY APPLICATION

T.C. 819 is a mildly alkaline material used in the food industry for cleaning all types of processing equipment including vat pasteurizers and fittings. It is also used in metalworking shops as a pre-cleaner prior to electrocleaning or phosphating and as a barrel finishing additive. T.C. 819 can be applied manually or by pressure spraying. When used as directed, it safely removes soils from steel, stainless steel, aluminum, brass, copper, magnesium, and glass.

CHEMICAL CHARACTERISTICS

Chemical composition	Basic alkaline salts, phosphates and biodegradable anionic surfactants
Physical form	As received: white powder As used: clear solution
Odor	None
Specific gravity	Not applicable
Bulk density	6.5 lbs./gal.
Viscosity	Not applicable
Flash point	None
Hygroscopic tendency	Slight
Recommended diluent	Water
Foaming tendency	Moderate when circulated; severe when sprayed
Maximum solubility	24 oz./gal. at 70°F.; 60 oz./gal. at 180°F
Behavior in hard water	Sequesters
Rinseability	Excellent
Biodegradable	Yes
Normal working concentrations	1/5 to 4 oz./gal.
Normal working temperatures	120° to 180°F [depending upon operation and extent of soil buildup]
pH at working concentrations	11.2 to 12.3 at 70°F
Effect of working solutions on metals	Rate of metal loss from a 1 hour immersion in T.C. 819, 3 oz./gal. at 150°F. is as follows:

Rate of Metal Loss from 1 hour Immersion in T.C. 819

Metal	Inches per year	Description
Steel	.000	None
Stainless steel	.000	None
Aluminum	.000	None
Magnesium	.000	None
Copper	.006	Very slight
Zinc	.011	Very slight
Brass	.012	Very slight

APPLICATION PROCEDURE

Preparing Solutions

Sprinkle required amount of T.C. 819 in full tank of water, agitate to dissolve and heat to working temperature.

Applying T.C. 819

T.C. 819 is used for manual or pressure spray applications. It is generally applied between 1/5 and 4 oz./gal., 120° to 180°F. Exact concentrations and operating temperatures will depend upon the operation, soils to be removed and extent of soil build-up.

NOTES ON USE

T.C. 819 is a mildly alkaline material and no special handling precautions are required.

APPROVALS

Components of T.C. 819 are acceptable to plants operating under the supervision of the U.S.D.A. and F.D.A.

DISPOSAL

T.C. 819, in itself, does not present a disposal problem. Where neutralization and dilution is required by local regulations, neutralize to a pH of 7 and dilute at 2 oz./gal. before dumping.

PACKAGING

It is packaged in non-returnable fiber drums of 160 or 350 lbs. net.

SHIPMENT

T.C. 819 may be shipped by any common carrier. The freight classification is "Cleaning Compound, NOIBN, Liquid."

STORAGE

It is suitable for general indoor storage.