

T.C. 81 Rinse Additive

PRIMARY APPLICATION

T.C. 81 is added in minute amounts to the water in cooling canals and retorts of U.S. food plants (except those processing meats) to prevent water spotting. It acts to reduce the surface tension of water, thereby thinning it out. Cans or jars thus treated dry down quickly, uniformly and cleanly with no significant water spotting or dulled surfaces. Labels are easier to apply and adhere better. Faster dry down helps retard metal corrosion. In addition, T.C. 81 may be used in metal processing as a final rinse aid, after chrome plating or other operations where water spotting may be a problem. It also improves cleaning and wetting out properties of Tru-Chem phosphate materials. T.C. 81 is approved for use in meat and poultry processing plants (as well as other food plants) by the CDA (in Canada).

CHEMICAL CHARACTERISTICS

Chemical composition	A blend of nonionic surfactants
Physical form	A colorless liquid
Odor	None
Specific gravity	1.017 at 20°C (68°F)
Bulk density	1008 g/l (8.4 lbs/gal)
Viscosity	6.2 cps, Brookfield Spindle 1, 60 rpm At 20°C (68°F)
Flash point	None
Foaming tendency	Moderate to high
Maximum solubility	Infinite
Behavior in hard water	Unaffected
Rinseability	Good
Biodegradable	No
Phosphate-free	Yes
Normal operating temperature range	No limit
Normal working concentrations	0.05% to 0.5% by volume
pH at working concentrations	6.9 to 7.2
Effect of prolonged boiling	None
Effect of working solutions on metals	Applicable on steel, stainless steel, copper, brass, aluminum and zinc when used as directed; attacks magnesium

APPLICATION PROCEDURE

Add T.C. 81 at concentration range of 0.05% to 0.5% by volume to the cooling rinse water in retorts or to the water in cooling canals. For metal processes, use at same concentration range.

Solution Control: There is no need to Titrate T.C. 81.

NOTES ON USE

Safety and Handling Precautions

T.C. 81 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 handling. 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 water. If swallowed, give several glasses of water or milk to drink. Contact a physician.

DISPOSAL

Generally, no special treatment is required at recommended use concentrations. Discharge in accordance with Federal, State and local regulations.

PACKAGING

Packaged in non-returnable poly-fiber drums as follows:

Large drum	151.9 kg (335 lbs net)
Small drum	68.0 kg (150 lbs net)

SHIPMENT

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

STORAGE

Suitable for general indoor storage. Keep container closed when not in use. Keep from freezing.

Effects of high temperature storage	None
Effects of low temperature storage	Stratified at -1°C (30°F); restores when Warmed and agitated
Effects of aging	None