

TETRA-CHEM INDUSTRIES LTD.



SPECIALTY CHEMISTRY • INNOVATIVE ENGINEERING
APPLICATION TECHNOLOGY • WASTE MANAGEMENT SYSTEMS

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www.tetra-chem.com

PRODUCT APPLICATION PRESENTATION

PRODUCT IDENTIFIER:
PROCESS IDENTIFIER:

TCI 118 H.D.TM
NON-CONDUCTIVE MULTI-METAL SPRAY CLEANER AND
CORROSION INHIBITOR FOR ELECTRICAL COMPONENTS

PRODUCT INTRODUCTION:

TCI 118 H.D. is a water emulsifiable light amber liquid with a faint solvent odor. It is a blend of organic alkali builders, biodegradable non-foaming detergents, wetting agents, high temperature activated non-flammable solvents and inert residual non-conductive corrosion inhibitors.

PROCESS INTRODUCTION:

TCI 118 H.D. is especially designed for cleaning multi-metals in a hot, mild alkaline medium through the mechanical spray action of a spray cabinet or tunnel washer. The purpose of this design formulation is to minimize residual ionic conductivity on electrical components such as motor windings, armatures, stators etc. after the cleaning process and thermal evaporation of moisture from the components.



CABINET SPRAY WASHER
ELECTRIC MOTOR COMPONENTS

PROCESS SPECIFICITY:

Ideally TCI 118 H.D. is metered into distilled or deionized hot water (65°C) forming a non-conductive, non-foaming clear microemulsion. Cabinet washers used to clean dirty long time electrical service components are cleaned with a 10% solution (10 L TCI 118 H.D./ 100 L WATER) subject to length of wash cycle by human judgement. The same product acts as a **CORROSION INHIBITOR** at 4 % (4 L TCI 118 H.D./ 100 L WATER) to protect machined parts for 1000+ hours against corrosion by atmospheric conditions as long as the parts are not rinsed off with raw water. Soils effectively removed through high pressure turbulence (50-80 psi) include: dirt, oil, machine coolants, drawing compounds, grease, carbon, metallic particles, phosphate coatings and some paints. Position the parts as to avoid jet stream shadowing. The surface dirt is cleaned away by emulsification, dispersion, saponification and sludge settling or a combination of these mechanisms. Most spray wash machines come equipped with oil skimmers. These devices remove the oil component from the chemical solution to ensure continuous quality cleaning. The solution strength should be maintained on a daily basis when the spray washer is in continuous use.



"TREK" TUNNEL WASHER
ELECTRONIC COMPONENTS
MACHINED MULTI-METAL DEGREASING

SOLUTION MAINTENANCE:

The cleaning solution is maintained through simple addition of **TCI 118 H.D. concentrate** by a metering pump mounted on the drum and placed near the washer. Solution strength may be determined by human judgement, a refractometer, or titrating with a dilute acid to the phenolphthalein end point with **TEST KIT 118** and checking the reference chart for the addition to be made.

SOLUTION DISPOSAL:

The clean chemical solution is biodegradable, but in accordance to the **Ontario Ministry of the Environment and Energy "Regulation 347"** and local municipal by-laws the cleaning process may have generated a hazardous or liquid industrial waste in which case it must be manifested and removed by a licensed carrier and be received by a licensed receiver accompanied by a Generator Registration Number. Prior to sewer discharge contact: **TETRA-CHEM INDUSTRIES LTD.** for a complete and complementary analytical tests in compliance with the regulations.

PACKAGING: 25, 205 Litres

PLEASE CALL OUR **TECHNICAL SUPPORT LINE @ 1-888-658-5515 FOR SOLUTIONS TO YOUR INDUSTRY.**
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