

TETRA-CHEM INDUSTRIES LTD.



**SPECIALTY
CHEMISTRY**

**INNOVATIVE
ENGINEERING**

**APPLICATION
TECHNOLOGY**

**WASTE MANAGEMENT
SERVICES**

71 JOHN ST. E., BRIGHT, ON CANADA NOJ 1B0

TEL: (519) 454-4370 (888) 658-5515 FAX: (519) 454-4362
WEB SITE: www.tetra-chem.com EMAIL: info@tetra-chem.com

Check out our Web Site !
www.tetra-chem.com

PRODUCT APPLICATION PRESENTATION

PRODUCT IDENTIFIER:

T C I 1 2 2 1 H . D .™

PROCESS IDENTIFIER:

HOT AQUEOUS RUST/SCALE STRIPPER & CORROSION INHIBITOR

PRODUCT PRESENTATION

TCI 1221 H.D. is an amber alkaline liquid formulation of biodegradable detergents, special rust and lime scale removers, chelating agents, buffers and corrosion inhibitors.

PROCESS INTRODUCTION

TCI 1221 H.D. is charged to a volume of **HOT WATER** at 60°C at a rate of 500 ml/l.

WARNING

DO NOT USE STRONG ALKALINE SOLUTIONS FOR CLEANING ALUMINUM, ITS ALLOYS OR OTHER WHITE METALS. CONSULT SERVICE REPRESENTATIVE FOR SAFE AND EFFICIENT APPLICATION OF **TCI 1221 H.D.**

PROCESS SPECIFICITY

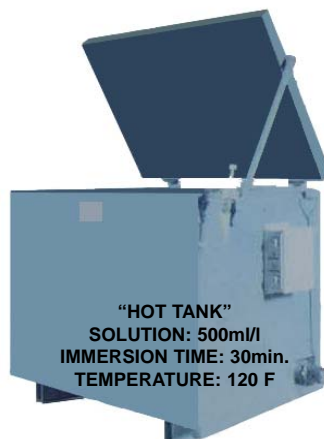
Immersion cleaning of soiled ferrous and copper metals and their alloys pertaining to industrial rust removal. Soils effectively removed through alkaline immersion cleaning include; dirt, oil, grease, carbon, metallic particles, paints and enamels, rust, phosphate coatings, heat treat scale and smut. The metals are cleaned by emulsification, dispersion, saponification, or a combination of these mechanisms. The cleaning solution comes in contact with the entire surface of the part. After the alkaline cleaner had affected the soil on the part, the soil is removed from the metal surface by convection currents in the solution which are created by heating units or through some mechanical means of solution movement.

SOLUTION DISPOSAL:

The clean chemical solution is biodegradable, but according 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:

1. discharged through a treatment system or
2. manifested and removed by a licensed carrier and received by a licensed receiver accompanied by a Generator Registration Number or
3. removed by a licensed carrier and received by a licensed receiver under a Service Contract providing a Garage License Number. Contact **TETRA-CHEM INDUSTRIES LTD.** for complete and complementary analytical tests in compliance with the regulations prior to sewer discharge.

PACKAGING: 205 L



SOLUTION MAINTENANCE

TCI 1221 H.D. alkaline cleaner is weakened by reactions with acid soils, rust and hard water, by sludge resulting from common ion absorption on solids or emulsified oils, and by dilution resulting from water additions made to replenish dragout losses. Periodic tests should be made to monitor the solution strength with **TEST KIT 1221** provided.



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