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TETRA-CHEM INTERNATIONAL INC.

71 JOHN ST. E., BRIGHT, ON CANADA N0J 1B0
TOLL FREE: 1-888-658-5515

WEB SITE ADDRESS: www.tetra-chem.com

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Chem Wash
HYDRO-TEK TCI APPLIED SCIENCE

SPECIALTY CHEMISTRY INNOVATIVE ENGINEERING
APPLICATION TECHNOLOGY WASTE MANAGEMENT SYSTEMS

2012 EDWARDS
WICHITA, KS 67213 USA



email: info@tetra-chem.com



RE-ORDER: 316-744-SOAP

PRODUCT APPLICATION PRESENTATION

TCI 722 H.D.™

EXCRETA PRE-SOAK FOAMING DETERGENT LIQUID CONCENTRATE

PRODUCT IDENTIFIER:

PROCESS IDENTIFIER:

PRODUCT PRESENTATION

TCI 722 H.D. features a new "BRUSH-LESS CONCEPT" in the form of a super concentrated "GREEN" liquid formulation that combines the cleaning ability of biodegradable detergents, environmentally friendly sequestering agents and grease cutting alkalis. Designed with "PHOSPHATE FREE" chemistry. The water adjustable concentration strength is based on the degree of soil complexity encountered in the transportation industry (TRAINS, TRUCKS & TRAILERS, UTILITY TRUCKS, AIRCRAFT, SHIPS & BOATS, AGRICULTURAL EQUIPMENT ie. LIVESTOCK and DRY FEED BULK CARRIERS, BUSES, RV'S, CARS AND VANS) at ambient temperatures. Safe on all common surfaces when used according to directions.

PACKAGING: 05, 55, 330 USgal



PROCESS PRESENTATION

TCI 722 H.D. is designed for brushless vehicle washing when applied with the MANUFACTURER'S approved **CHEMICAL PROPORTIONER APPLICATOR SYSTEM** (SEE BROCHURE) and sprayed as a dense foam directly from the mixing tank onto the surface to be cleaned. The preportioned solution breaks the soil matrix quickly which is then affected by a high pressure (2000-3000 psi) cold water rinse.

TCI 722 H.D. is ideal for removing heavy encrustation of bugs, excreta and road film with ease, lime dust & oxides from all surfaces sensitive to acid type cleaning solutions, oil & grease including mud and grime. The chemical solution rinses freely and is thus harmless to aluminum articles and paint over time. This formulation improves light reflectivity by leaving a rich luxurious sheen behind.

PROCESS SPECIFICITY

PREMIX 1-5 Gallons OF TCI 722 H.D. CONCENTRATE TO 54 - 50 Gallons OF WATER MANUALLY OR WITH THE RECOMMENDED CHEMICAL PROPORTIONER DEPENDING ON SOIL COMPLEXITY AND ACCUMULATED BUILD-UP THEN FOAMED ON.

The process can be implemented for cleaning all types of painted surfaces, chrome, ferrous and non-ferrous metals (steel and copper), white metals (aluminum and magnesium) where daily or weekly maintenance will not tarnish or dull wheels, fuel tanks, bodies, stainless steel or truck accessories. Enormous time and labor savings are realized when the surface is rinsed with cold soft to medium hard water at 4 gpm and 2000 - 3000 psi.

PRODUCT SAFETY

ACCORDING TO GOVERNMENT REGULATIONS READ MATERIAL SAFETY DATA SHEETS BEFORE USING ANY CHEMICAL PRODUCT. Contains mild alkalies, buffers and biodegradable surfactants. Do not take internally. If splashed on skin, flush thoroughly with water. Avoid prolonged skin contact of concentrate. If splashed in eyes, flush thoroughly with water. If irritation persists seek medical attention. Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

TCI 722 H.D.

is designed to be used with a
**FOAM GENERATING
APPLICATOR SYSTEM**

**FLUSH-OUT INTERIOR
FOAM INTERIOR
(BOTTOM to TOP)
(FRONT to BACK)
POWER WASH**

**(2-3000 psi HOT or COLD)
APPLY to EXTERIOR LAST**

PLEASE CALL OUR **TECHNICAL SUPPORT LINE @ 1-888-658-5515** FOR SOLUTIONS TO YOUR INDUSTRY.
CONSULT SERVICE REPRESENTATIVE FOR SAFE AND EFFICIENT APPLICATION

THE INFORMATION GIVEN HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS MADE

SECTION I - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: T C I 7 2 2 H. D.
PRODUCT USE: EXCRETA PRE-SOAK
FOAMING DETERGENT LIQUID CONCENTRATE
EMERGENCY PHONE #: (519) 454-4370
MANUFACTURER'S NAME AND ADDRESS:
TETRA-CHEM INTERNATIONAL INC.
 71 JOHN ST. E., BRIGHT ON CA N0J 1B0
TEL: (519) 454-4370 - **FAX:** (519) 454-4362

SUPPLIER'S NAME: **CHEM WASH**
 2012 EDWARDS
 WICHITA, KS 67213 **TEL:** (316) 744-7627

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	% BY WEIGHT
No Hazardous Ingredients		
(SPECIES - ROUTE)	LD ₅₀	LC ₅₀

SECTION III - PHYSICAL DATA

PHYSICAL STATE: SOLID ☐ LIQUID ☒ GAS ☐

ODOR AND APPEARANCE: PLEASANT MILD ODOR, GREEN LIQUID.

BOILING POINT: 100 °C or 212 °F
FREEZING POINT: N.AV.
DENSITY (g/ml): 1.05
pH: 11.9
% VOLATILE: > 60
SPECIFIC GRAVITY (WATER=1): 1.05
ODOR THRESHOLD: N.AV.
VAPOR PRESSURE (mm Hg): N.AV.
VAPOR DENSITY (AIR=1): N.AV.

OIL / WATER DISTRIBUTION COEFF.: N.AV.
SOLUBILITY IN WATER: 100 %
EVAPORATION RATE (n-BUTYL ACETATE=1): N.AV.

SECTION IV - FIRE AND EXPLOSION HAZARD

FLAMMABILITY: YES ☐ NO ☒

UNDER WHAT CONDITIONS:

TDG FLAMMABILITY CLASSIFICATION: N.AP.
AUTO-IGNITION TEMPERATURE: N.AP.
FLASH POINT: N.AP. **METHOD USED:** .
FLAMMABLE LIMITS: LEL (% BY VOLUME): N.AP.
 UEL (% BY VOLUME): N.AP.
TDG FLAMMABILITY CLASSIFICATION:

MEANS OF EXTINCTION:
 WATER ☐ CO₂ ☐ DRY CHEMICAL ☐ OTHER ☐

UNUSUAL FIRE AND EXPLOSION HAZARDS / REMARKS:
 USE AN APPROPRIATE MEAN OF EXTINCTION FOR SURROUNDING FIRE.
 HAZARDOUS COMBUSTION PRODUCTS: NONE
 EXPLOSION DATA: SENSITIVITY TO MECHANICAL IMPACT: NONE
 SENSITIVITY TO STATIC DISCHARGE: NONE

SECTION V - REACTIVITY DATA

STABILITY: UNSTABLE ☐ STABLE ☒

INCOMPATIBILITY OF OTHER SUBSTANCES:
 STRONG OXIDIZING AGENTS AND ACIDIC MATERIALS.
CONDITIONS OF REACTIVITY: MIXING
HAZARDOUS DECOMPOSITION PRODUCTS:
 OXIDES OF CARBON, NITROGEN, AND PRODUCTS OF INCOMPLETE COMBUSTION.

SECTION VI - TOXICOLOGICAL PROPERTIES

CANADA WHMIS: MATERIAL CAUSING OTHER TOXIC EFFECTS (D2)

POTENTIAL HEALTH HAZARDS
ROUTE(S) OF ENTRY:
SKIN (CONTACT): NO (ABSORPTION): NO **INGESTION:** YES
INHALATION (ACUTE): NO (CHRONIC): NO **EYE:** NO

INGREDIENTS ACGIH TLV OSHA PEL

EFFECTS OF ACUTE EXPOSURE TO PRODUCT:
EYE CONTACT: MAY CAUSE PAIN, AND EYE IRRITATION.
SKIN CONTACT: MAY CAUSE SKIN IRRITATION.
INHALATION: MAY IRRITATE NOSE, THROAT AND LUNGS.
INGESTION: MAY CAUSE MOUTH, THROAT AND GASTROINTESTINAL IRRITATION, LARGE DOSES MAY CAUSE MUSCLE PARALYSIS.
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: N.AV.
 CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: NO
 REPORTED EFFECTS ON HUMANS UNDER NORMAL CONDITIONS OF USE.
TARGET ORGANS: N. AV.
 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.AV.
 SENSITIZATION TO PRODUCT: NONE
 SYNERGISTIC PRODUCTS: NONE

SECTION VII - PREVENTIVE MEASURES

RESPIRATORY PROTECTION AND TYPE: NONE REQUIRED
ENGINEERING CONTROLS: NORMAL VENTILATION UNDER NORMAL CONDITIONS.
PROTECTIVE GLOVES: RUBBER GLOVES FOR HANDLING CONCENTRATE.
EYE PROTECTION: SAFETY GOGGLES **FOOT WEAR:** SAFETY SHOES
OTHER SPECIFIC CLOTHING OR EQUIPMENT REQUIRED: EYE BATH STATION
LEAK AND SPILL PROCEDURE: FLUSH WITH WATER INTO SANITARY SEWER.
FOR LARGE SPILLS, DIKE AND PUMP INTO DOT APPROVED CONTAINERS.
HANDLING PROCEDURES AND EQUIPMENT: ALKALI LIQUID SAFETY REGULATIONS
STORAGE REQUIREMENTS: NORMAL INDOOR, KEEP FROM FREEZING

WASTE DISPOSAL:
 THE CLEANING PROCESS MAY GENERATE A HAZARDOUS INDUSTRIAL WASTE.
 COMPLY WITH CANADIAN MINISTRY OF THE ENVIRONMENT & ENERGY
 REGULATION 347 AND LOCAL MUNICIPAL BY-LAWS.
 COMPLY WITH USA EPA'S FEDERAL, STATE & LOCAL REGULATIONS.

SPECIAL SHIPPING INFORMATION: NONE

SECTION VIII - FIRST AID MEASURES

EYE CONTACT: FLUSH EYES WITH WATER OR SALINE SOLUTION FOR 15 MINUTES.
 TURN BACK EYE LIDS. GET MEDICAL ATTENTION.
INHALATION: MOVE PATIENT TO FRESH AIR. IF BREATHING HAS STOPPED,
 OR IS LABORED, GIVE OXYGEN OR ARTIFICIAL RESPIRATION.
 GET MEDICAL ATTENTION.
SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. FLUSH AREA WITH WATER
 OR A MILD ACID SOLUTION ie VINEGAR FOR 15 MINUTES. GET MEDICAL ATTENTION.
INGESTION: DO NOT INDUCE VOMITING. ONLY IF CONSCIOUS, GIVE LARGE
 AMOUNTS OF MILK OR WATER. KEEP PATIENT CALM. CALL PHYSICIAN IMMEDIATELY.

SECTION IX - PREPARATION DATA

PREPARED BY: HEALTH & SAFETY COMMITTEE **DATE:** 08 JAN 2009
CONTACT: AL STRUTHMANN (Hon. BSc.) **TEL:** (519) 454-4370
CANADA & USA TOLL FREE 1-888-658-5515 **FAX:** (519) 454-4362

NOTE: N. AP. = NOT APPLICABLE N. AV. = NOT AVAILABLE

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