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TETRA-CHEM INTERNATIONAL INC.

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TOLL FREE: 1-888-658-5515

WEB SITE ADDRESS: www.tetra-chem.com

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Chem Wash
HYDROTEK 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

PRODUCT IDENTIFIER:

TCI 704 H.D™

PROCESS IDENTIFIER:

PHOSPHATE-FREE TRANSPORTATION CLEANER/DEGREASER

PRODUCT PRESENTATION

TCI 704 H.D. features a new complex "HYDROCARBON SOOT AND ROAD FILM SOLVENT" in the form of a super concentrated "PINK" liquid formulation that combines the cleaning ability of biodegradable detergents, environmentally friendly sequestering agents and mild buffered 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 (PAINTED STEEL AND ALUMINUM, VINYL TARPS etc.) UTILITY TRUCKS, AIRCRAFT, SHIPS & BOATS (FIBERGLASS), AGRICULTURAL EQUIPMENT, BUSES, RV'S, CARS AND VANS) at ambient temperatures. Safe on all common surfaces when used according to directions.

PROCESS INTRODUCTION

TCI 704 H.D. is designed for exterior washing when applied with the **MANUFACTURER'S** approved **CHEMICAL APPLICATOR SYSTEM** and sprayed as a light mist directly from the mixing tank onto the surface to be cleaned. It may also be applied directly with the siphoning mechanism of a **POWER WASHER**. The preportioned solution breaks the soil matrix quickly when agitated with a brush and rinsed with warm or cold water pressure at (2,500-3000 psi). **TCI 704 H.D.** is ideal for removing heavy encrustation of incomplete combustion by-products from exhaust ports, hydraulic oils, road film, bugs, engine oil and grease. The chemical solution rinses freely and is thus harmless to paint over time. This formulation improves light reflectivity by leaving a rich sheen behind.

PROCESS SPECIFICITY

FUNCTIONALLY MIX **TCI 704 H.D.** CONCENTRATE AT 2,5 - 30% in WATER DEPENDING on the type of SURFACES applied to and the COMPLEXITY of the SOIL MATRIX. The process can be implemented for the exterior cleaning of all types of painted surfaces, fiberglass, vinyl tarps & awnings, 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.

PACKAGING: 005, 055, 330 USgal

TRANSPORTATION INDUSTRY

Image Compliments of
Nature Transport
Burgessville, Ontario



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 0 4 H. D.
PRODUCT USE: PHOSPHATE - FREE BRUSHLESS
 TRANSPORTATION VEHICLE CLEANER/DEGREASER
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, RED 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

WHMIS: MATERIAL CAUSING OTHER TOXIC EFFECTS (D2)

POTENTIAL HEALTH HAZARDS

ROUTE(S) OF ENTRY:

SKIN (CONTACT): YES (ABSORPTION): NO **INGESTION:** YES
INHALATION (ACUTE): NO (CHRONIC): NO **EYE:** YES

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: NITRILE 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
CONTACT: AL STRUTHMANN (Hon. BSc.)
 CANADA & USA TOLL FREE 1-888-658-5515

DATE: 06 JAN 2009
TEL: (519) 454-4370
FAX: (519) 454-4362

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

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