

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT HURRISAFE TEC 50 SCALE REMOVER

FILE NO.: Tec 50
MSDS DATE:11/11/08

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HURRISAFE SCALE REMOVER
SYNONYMS:
PRODUCT CODES: TEC-50

MANUFACTURER: PCI OF AMERICA
DIVISION:
ADDRESS: 2701 TOWER OAKS BLVD, SUITE 300
ROCKVILLE MARYLAND 20852

EMERGENCY PHONE: 1-800 222-1455
OTHER CALLS: 301 468-1700
FAX PHONE: 301 468-1744

CHEMICAL NAME: Phosphoric Acid Blend and Detergent

CHEMICAL FAMILY: Acidic

PRODUCT USE: Remove Scale Build on Metal Surfaces.

SECTION 1 NOTE:

SECTION 2: HAZARDOUS COMPONENTS

INGREDIENT:

<u>Name</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>TLV</u>	<u>% WT</u>	<u>SARA Title III RQ LBS</u>
Hydrochloric Acid	764701-0	1 MG/M3	1 MG/M3	9 %	5000

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive Liauid. Causes Chemical Burns to Skin and eyes. Hazardous Symbols for this product: C Risk Phrases-R22, 34

POTENTIAL HEALTH EFFECTS

EYES: Corrosive; Causes immediate severe irritation of the eye and eyelids. If not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight.

SKIN: Corrosive and irritating; chemical burns may result from contact.

INGESTION: Corrosive. Material is extremely destructive to all tissues. May be harmful or fatal if swallowed.

INHALATION: Corrosive and irritating to upper respiratory tract. May be harmful if inhaled.

ACUTE HEALTH HAZARDS: None

CHRONIC HEALTH HAZARDS: None

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

CARCINOGENICITY

OSHA: No **ACGIH:** No **NTP:** No **IARC:** No

OTHER:

SECTION 3 NOTES:

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SECTION 4: FIRST AID MEASURES

EYES: Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION: Give Person two glasses of water if conscious and alert followed by milk, milk of magnesia or other non-alcoholic liquids; DO NOT induce vomiting; seek medical attention immediately.

INHALATION: Remove affected person to fresh air; if breathing has not returned to normal within a few minutes after exposure, get medical attention.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
(% BY VOLUME) **LOWER:** None

FLASH POINT: None
F: n/a
C: n/a

METHOD USED: TCC

AUTOIGNITION TEMPERATURE: N/A
F: n/a
C: n/a

NFPA HAZARD CLASSIFICATION
HEALTH: 0 **FLAMMABILITY:** 0 **REACTIVITY:** 0
OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: 02 **FLAMMABILITY:** 0 **REACTIVITY:** 0
PROTECTION: A

EXTINGUISHING MEDIA: Water or fire extinguisher, dry chemicals, chemical foam, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: No special fire fighting procedures required but caution-material is corrosive if material is released.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with B:C extinguisher powder may product large amounts of carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, fumes or vapors, oxides of carbon, phosphorous

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Small spills: flush with water, large spills: Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. For spills in excess of allowable quantities (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Do not use or store near heat or open flame. Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust is recommended. Use corrosion-resistant ventilation equipment.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

EYE PROTECTION: Safety Glasses

SKIN PROTECTION: Plastic or rubber Apron or other coveralls should be worn to prevent skin contact.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES: Wash hands after use. Wear plastic apron if excessive splashing is expected. If clothing becomes soaked, remove shower and wash clothing.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: liquid

SPECIFIC GRAVITY (H₂O = 1): 1.25

ODOR: No odor

EVAPORATION RATE: >1

PHYSICAL STATE: liquid

pH AS SUPPLIED: 1.5

SOLUBILITY IN WATER: 100%

pH (Other): diluted 1:3 with water 4.5

PERCENT SOLIDS BY WEIGHT: not tested

BOILING POINT:

F: 212

C: 178

PERCENT VOLATILE: N/a

FREEZING POINT: 48 or more hours below

F: < 32

C: <0

F: 77

C:25

VAPOR PRESSURE (mmHg):
@ 1.0 mm Hg@20°C

VOLATILE ORGANIC COMPOUNDS (VOC):
SCAQMD Method 313-91; 0

VAPOR DENSITY (AIR = 1): >1

SECTION 9 NOTES:

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SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: YES

CONDITIONS TO AVOID (STABILITY): Extreme Temperatures

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids, strong alkalies.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None will occur if handled and stored properly.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Hazardous Ingredient: Phosphoric Acid (a)

Cas # : 7664-38-2

EINECS# 231-633-2

LD50 of Ingredient (Specify Species and Route) 1530 mg.kg Oral-rat

LC50 of Ingredient (Specify Species and Route) >850 ng/m³ Inhalation-rat

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No data is available on the adverse effect of this material on the environment.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260 - 299 for complete waste disposal regulations for corrosive materials. Consult your local, state, or federal agency before disposing of any chemicals.

SECTION 13 NOTES:

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SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Phosphoric acid solution	
DOT HAZARD CLASS / Pack Group:	8 / III	IATA HAZARD CLASS / Pack Group: 8 / III
REFERENCE:	49 CFR 173.154, .203, .241	IMDG HAZARD CLASS: 8 / III
UN / NA IDENTIFICATION NUMBER:	UN 1805	RID/ADR Dangerous Goods Code: 8
LABEL:	CORROSIVE	UN TDG Class / Pack Group: 8 / III
HAZARD SYMBOLS:	C	Hazard Identification Number (HIN): 80

PROPER SHIPPING NAME: Consumer Commodity (Less than 5 liters ONLY)
DOT HAZARD CLASS / Pack Group: ORM - D / None
REFERENCE: 49 CFR 173.144-156
UN / NA IDENTIFICATION NUMBER: None
LABEL: None Required
HAZARD SYMBOLS: None

SECTION 14 NOTES:

Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All Chemicals are listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): none

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: Immediate health

313 REPORTABLE INGREDIENTS: none

STATE REGULATIONS:

CERCLA (Comprehensive Response Compensation and Liability Act)

a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 10,000 lbs) or greater amounts, according to 40 CFR 302.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS:

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: E

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

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Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

R22 Harmful if swallowed.

R34 Causes burns.

EC Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

HMIS HAZARD RATINGS

HEALTH	2	* = Chronic Health Hazard	2 = Moderate
FLAMMABILITY	0	0 = INSIGNIFICANT	3= High
PHYSICAL HAZARD	0	1 = SLIGHT	4=Extreme
PERSONAL PROTECTIVE EQUIPMENT	C		

PREPARATION INFORMATION: MSDS Prepared by: PCI of America Inc.

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Rockville Maryland 20852
(800) 222-1455
www.hurrisafe.com

: **DISCLAIMER:** The information of this MSDS is based on the present state of our knowledge and on current US, EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.