



# Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	T.N.T	<b>Version: 6</b> <b>Effective Date: 3 January, 2016</b>
<b>Other Means Of Identification</b>	None	
<b>Initial Supplier Identifiers</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
<b>Recommended Use and Restrictions On Use</b>	Tile and tub cleaner / descaler, hard water deposit remover. No restrictions.	
<b>Product Family</b>	Blend	
<b>24 Hour Emergency</b>	Canutec (613) 996-6666	

Section 2. Hazard Identification	
<b>Hazard Classification</b>	 
<b>Physical Hazards</b>	Corrosive to Metals – Category 1
<b>Health Hazards</b>	Acute Toxicity (Dermal) – Category 4 Skin Corrosion/Irritation – Category 1B Eye Damage/Irritation - Category 1
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	May be corrosive to metals. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage.
<b>Precautionary Prevention Statement</b>	Keep only in original packaging. Wear protective gloves, clothing eye and face protection. Do not breathe dusts or mists. Wash hands thoroughly after handling.
<b>Precautionary Response Statement</b>	Absorb spillage to prevent material-damage. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse and wash skin with water or shower if on clothing. Call a doctor if you feel unwell. Specific treatment: do not induce vomiting unless directed by medical personnel.

## Safety Data Sheet

	<p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.</p>
<b>Precautionary Storage Statement</b>	Store locked up.
<b>Precautionary Disposal Statement</b>	Dispose of contents / container in accordance with local regulations.
<b>Other Hazards</b>	None

### Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS No. and Other Unique Identifiers	% by weight
Phosphoric Acid	N/A	7664-38-2	5 - 15
Balance of ingredients are considered non hazardous and constitute a proprietary blend			

### Section 4. First-Aid Measures

<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Rinse out mouth, and give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	Irritation, nausea, headache, shortness of breath. May cause severe burns and ulceration. May cause irreversible eye injury. May cause gastrointestinal burns, corrosion and permanent tissue damage of the digestive tract and esophagus.
<b>Immediate Medical Attention and Special Treatment</b>	Wipe off contact area with dry cloth if possible before flushing with water. Dispose of cloth by soaking in water. Wash skin area with plenty of water.

## Safety Data Sheet

Section 5. Fire-Fighting Measures	
<b>Suitable and Unsuitable Extinguishing Media</b>	Use extinguishing media suitable for the surrounding fire.
<b>Hazardous Combustion Products</b>	Oxides of phosphorus.
<b>Specific Hazards Arising From the Product</b>	Hydrogen gas is released in contact with most metals. Combustion products may include carbon oxides and other toxic gases.
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear. Keep unprotected persons away. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Do not allow spilt material to enter surface drains and watercourses.
<b>Methods and Materials For Containment and Clean-Up</b>	Stop the leak at source. Contain spilt material using dikes. Only persons with protective equipment should be allowed in the area. Pump up spilt material and place in a suitable container for disposal. Cover contaminated area with soda ash or sodium bicarbonate/ flaked lime (50:50 mix). Mix to a slurry – add water if needed. Scoop up slurry for disposal. Wash area with soda ash solution.

Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Handle with care. To dilute add product to water slowly to prevent boiling and splattering.
<b>Conditions For Safe Storage</b>	Store in a cool dry place. Keep containers closed when not in use. Empty containers may contain hazardous residues.

Section 8. Exposure Controls / Personal Protection				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Phosphoric Acid	1 mg/m <sup>3</sup> (CAD AB OEL)	3 mg/m <sup>3</sup> (CAD AB OEL)		1000 mg/m <sup>3</sup>
	* Immediately Dangerous to Life and Health			
<b>Exposure Controls</b>	Local exhaust ventilation			

## Safety Data Sheet

<b>Appropriate Engineering Controls</b>	Ensure eye wash station and safety shower are available.
<b>Individual Protective Measures</b>	
<b>Eye / Face Protection</b>	Safety glasses.
<b>Skin Protection</b>	Chemical resistant (rubber/ neoprene) gloves, coveralls and footwear
<b>Respiratory Protection</b>	Air purifying respirator fitted with cartridges for acid vapours and mists

Section 9. Physical and Chemical Properties	
<b>Appearance</b>	Green viscous liquid
<b>Odour</b>	Sharp odour
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	1.5
<b>Flash Point</b>	> 93 °C
<b>Boiling Point and Boiling Range</b>	No data
<b>Melting Point and Freezing Point</b>	No data
<b>Evaporation Rate</b>	No data
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	No data
<b>Vapour Density</b>	No data
<b>Relative Density</b>	1.092
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	No data
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Reacts with acids and metals
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Reaction with some incompatible materials – aldehydes / epoxides, can cause polymerisation
<b>Conditions to Avoid</b>	None known
<b>Incompatible Materials</b>	Avoid contact with: fluorine, strong oxidising agents, strong bases, metals, sulphur trioxide, phosphorus pentoxide

## Safety Data Sheet

<b>Hazardous Decomposition Products</b>	This material will react with metals to produce hydrogen gas which can form explosive mixtures in air.
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### Section 11. Toxicological Information

Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric Acid	1530mg/kg (Rat)	2730mg/kg (Rabbit)	850 mg/m <sup>3</sup> (Rat)
<b>Likely Routes of Exposure</b> <b>Skin:</b> May cause severe skin burns. <b>Eyes:</b> May cause severe burns and even permanent blindness. <b>Inhalation:</b> May cause severe irritation of the respiratory tract. Breathing this material may be harmful or fatal. <b>Ingestion:</b> May cause burns and destroy tissue in the mouth, throat and digestive tract. Symptoms may include irritation of the digestive tract – nausea, vomiting and diarrhea – abdominal pain and vomiting of blood. Ingestion may be fatal.			
<b>Acute Toxicity Estimates (ATE)</b>	No data		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Not classified		
<b>Aspiration Toxicity</b>	Not classified		
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Not classified		
<b>Skin Corrosion / Irritation</b>	Corrosive		
<b>Serious Eye Damage / Irritation</b>	Corrosive		
<b>Respiratory or Skin Sensitization</b>	Not classified		
<b>Carcinogenicity</b>	This substance has no evidence of carcinogenic properties.		
<b>Reproductive Toxicity</b>			
- Sexual Function and Fertility	Not classified		
- Development of Offspring	Not classified		
- Effects on or via Lactation	Not classified		
<b>Germ Cell Mutagenicity</b>	Not classified		
<b>Interactive Effects</b>	None known		

## Safety Data Sheet

<b>Other Information</b>	None known
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<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	Phosphoric acid: LC50: 3 – 3.5 mg/L (Gambusia affinis)
<b>Persistence and Degradability</b>	Will not persist
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	Material is practically not toxic to fish

<b>Section 13. Disposal Considerations</b>	
<b>Disposal Considerations</b>	Dispose of contents / container in accordance with local regulations.

<b>Section 14. Transport Information</b>	
<b>UN Number</b>	UN1805
<b>UN Proper Shipping Name</b>	Phosphoric acid solution
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	241 (49 CFR 173.xxx)
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	154

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable

## Safety Data Sheet

<b>HMIS Rating</b>	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	6 January, 2012
<b>Date of Latest Revision:</b>	3 January, 2016
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