

Section 1. Identificat	tion	•	
Product Identifier	Phosphoric Acid 75%	Version: 6	10.17.1
		Effective Date:	19 February, 2016
Other Means Of	N/A		
Identification			
Initial Supplier	Chemfax Products Ltd.		
Identifier	11444 – 42 Street SE		
	Calgary, AB T2C 5C4		
	Tel: 403-287-2055		
Recommended Use	Mineral acid, industrial descaler. No restrictions.		
and Restrictions			
On Use			
Product Family	Inorganic Acid		
24 Hour Emergency	Canutec (613) 996-6666		

Section 2. Hazard Identification		
Hazard Classification		
Physical Hazards	Corrosive To Metals – Category 1	
Health Hazards	Acute Toxicity (Oral) – Category 4 Skin Corrosion/Irritation – Category 1A Eye Damage/Irritation - Category 1	
Environmental Hazards	Hazardous To The Aquatic Environment – Short Term (Acute) Hazard – Category 2	
Signal Word	Danger	
Hazard Statement	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and serious eye damage. Toxic to aquatic life.	
Precautionary Prevention Statement	Keep only in original packaging. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts or mists. Wear protective gloves, clothing eye and face protection. Avoid release to the environment.	

Page 1 of 7 April 27, 2017



Precautionary Response	Absorb spillage to prevent material damage.	
Statement	IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.	
	Do NOT induce vomiting.	
	IF ON SKIN (or hair): Take off immediately all contaminated	
	clothing. Rinse skin with water or shower if on clothing. Wash	
	contaminated clothing before reuse.	
	IF INHALED: Remove person to fresh air and keep comfortable for	
	breathing. Immediately call a doctor.	
	Specific Treatment: do not induce vomiting unless directed by	
	medical personnel.	
	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.	
Precautionary Storage	Store in a corrosion resistant container with a resistant inner liner.	
Statement	Store locked up.	
Precautionary Disposal	Dispose of contents/container in accordance with local regulations.	
Statement		
Other Hazards	None	

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other	% by weight
		Unique Identifiers	
Phosphoric Acid	N/A	7664-38-2	70 - 80

Section 4. First-Aid Measu	ires
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention.
	Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek
	immediate medical attention.
Ingestion	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.
Most Important	Causes severe respiratory irritation if inhaled. Symptoms may include:
Symptoms and Effects	Burning of nose and throat, constriction of airway, difficulty breathing,
Both Acute and Delayed	shortness of breath, bronchial spasms, chest pain, and pink frothy
	sputum. Contact may cause immediate severe irritation progressing
	quickly to chemical burns. May cause pulmonary edema. Symptoms
	may be delayed.

Page 2 of 7 April 27, 2017



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	Contact with eyes can cause blindness.
	Repeated or prolonged inhalation may damage lungs. Prolonged and
	repeated contact will eventually cause permanent tissue damage and
	effects such as erosion of teeth, lesions on the skin, tracheo-bronchitis,
	mouth inflammation, conjunctivitis, and gastritis.
Immediate Medical	Remove/Take off immediately all contaminated clothing. Rinse
Attention and Special	immediately with plenty of water (for at least 15 minutes). Seek medical
Treatment	attention immediately if exposure is severe. Obtain medical attention if
	irritation develops or persists. Wash contaminated clothing before
	reuse.

Section 5. Fire-Fighting M	easures	
Suitable and Unsuitable	Use extinguishing media suitable for the surrounding fire.	
Extinguishing Media	Do not get water inside containers. Do not apply water stream directly	
	at source of leak. Do not use a heavy water stream. A direct water	
	stream will cause violent splattering and generation of heat.	
Hazardous	Oxides of phosphorus.	
Combustion Products		
Specific Hazards Arising	Under conditions of fire this material may produce: Oxides of	
From the Product	phosphorus; Phosphine.	
Special Protective	Fire-fighters should wear self contained breathing apparatus and full	
Equipment and	protective clothing. Use water spray to cool containers and structures	
Precautions For Fire-	exposed to fire.	
Fighters		
	Reacts with metals to generate flammable hydrogen gas. Containers	
	exposed to intense heat from fires should be cooled with water to	
	prevent vapour build up which could result in container rupture. Use	
	water spray or fog to reduce or direct vapours.	

Section 6. Accidental Release Measures			
Personal Precautions,	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear.		
Protective Equipment and	Stop leak if safe to do so. Eliminate ignition sources. Evacuate		
Emergency Procedures	unnecessary personnel. Ventilate area. Keep upwind.		
Environmental	Do not allow spilt material to enter surface drains and watercourses.		
Precautions			
Methods and Materials for	Stop the leak at source. Contain spilt material using dikes. Only persons		
Containment and	with protective equipment should be allowed in the area. Pump up spilt		
Clean-Up	material and place in a suitable container for disposal. Cover contaminated area with soda ash or sodium bicarbonate/ flaked lime		

Page 3 of 7 April 27, 2017



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

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Phosphoric Acid	1 mg/m^3	3 mg/m^3		1000 mg/m^3
	(CAD AB OEL)	(CAD AB OEL)		
	* Immediately Da	ngerous to Life and I	Health	
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering	Provide sufficient ventilation to keep vapors below the permissible			
Controls	exposure limit. Ensure adequate ventilation, especially in confined			
	areas. Packaging and unloading areas and open processing equipment			
	may require mechanical exhaust systems. Corrosion-proof construction			
	recommended.			
	Ensure eye wash station and safety shower are available.			
Individual Protective				
Measures				
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resistant (rubber/ neoprene) gloves, coveralls			
Respiratory Protection	Air purifying respirator fitted with cartridges for acid vapours and			
	mists			

Section 9. Physical and Chemical Properties		
Appearance	Clear, colourless liquid	
Odour	Odourless	
Odour Threshold	Not applicable	
pН	<1	
Flash Point	> 100 °C	
Boiling Point and Boiling Range	111 °C	
Melting Point and Freezing Point	-80 °C	
Evaporation Rate	>1	

Page 4 of 7 April 27, 2017



Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or	No data
Explosive Limits	
Vapour Pressure	15 mmHg @ 40 °C
Vapour Density	No data
Relative Density	1.58 gm/cm3 @ 15.56 °C
Solubility	Soluble
Partition co-efficient, n-	No data
Octanol/Water	
Auto-ignition Temperatures	No data
Decomposition Temperature	No data
Viscosity	23 cP at 40 °C (104 °F) (85% Phosphoric acid)

Section 10. Stability and Re	eactivity
Reactivity	Material is hygroscopic. Acidic liquids, such as this material, may
-	react with metals and release hydrogen gas.
Chemical Stability	Stable
Possibility of Hazardous	Will not occur
Reactions	
Conditions to Avoid	None known
Incompatible Materials	Avoid contact with: fluorine, strong oxidising agents, strong bases,
_	metals, sulphur trioxide, phosphorus pentoxide
Hazardous Decomposition	This material will react with metals to produce hydrogen gas which
Products	can form explosive mixtures in air.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric Acid	1530mg/kg (Rat)	2730mg/kg (Rabbit)	850 mg/m ³ (Rat)
Likely Routes of Exposure	•		
Skin:	May cause severe skin burns.		
Eyes:	May cause seve	ere burns and even pern	nanent blindness.
Inhalation:	•	rere irritation of the rese harmful or fatal.	piratory tract. Breathing this
Ingestion:	digestive tract. tract – nausea,	Symptoms may include	e in the mouth, throat and de irritation of the digestive abdominal pain and vomiting

Page 5 of 7 April 27, 2017



Acute Toxicity Estimates	1530 mg/kg (oral, rat)
(ATE)	Harmful if swallowed
STOT (Specific Target	May cause respiratory irritation
Organ Toxicity) – Single	
Exposure	
Aspiration Toxicity	Not classified
STOT (Specific Target	Not classified
Organ Toxicity) – Repeated	
Exposure	
Skin Corrosion / Irritation	Causes severe skin burns and eye damage. pH: $1 - 1.5$
Serious Eye Damage /	Causes serious eye damage. pH: 1 – 1.5
Irritation	
Respiratory or Skin	Not classified
Sensitization	
Carcinogenicity	Not listed
Reproductive Toxicity	
- Sexual Function and	Not classified
Fertility	
- Development of	Not classified
Offspring	
- Effects on or via	Not classified
Lactation	
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	None known

Section 12. Ecological Info	rmation
Ecotoxicity	Phosphoric acid: LC50: 3 – 3.5 mg/L (Gambusia affinis)
Persistence and	Will not persist
Degradability	
Bioacumulative Potential	Not available
Biodegradability	Not available
Mobility in Soil	Not available
Other Adverse Effects	None known

Section 13. Disposal Consi	derations
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Page 6 of 7 April 27, 2017



Section 14. Transport Information	
UN Number	1805
UN Proper Shipping Name	Corrosive Liquid N.O.S
Transport Hazard	8
Class(es)	
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154
Limited quantity	5L

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

Section 16. Other	Information
NFPA Rating	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	6 January, 2012
Date of Latest Rev	rision: 19 February, 2016

Disclaimer

Notice to reader

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Page 7 of 7 April 27, 2017