



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
Tel: (705) 436-5580 Fax: (705) 436-7194

Material Safety Data Sheet

PHOSPHORIC ACID 85% OR 75% (ORTHOPHOSPHORIC ACID)

Revision Date: 2008/07/30

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Mixture.

Product uses: Rust inhibitor.
Fertilizer.
Pharmaceuticals.
Compounding of detergents.
Food additives.
Fireproofing.
Metal treatment.

Product name: Phosphoric Acid 85% or 75% (Orthophosphoric Acid)

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
7664-38-2	75 - 85	PHOSPHORIC ACID	1 MG/M3	1250 MG/KG RAT ORAL 2740 MG/KG RABBIT DERMAL 1250 MG/KG MOUSE ORAL	25.5 MG/M3 RAT INHALATION 25.5 MG/M3 MOUSE INHALATION > 850 MG/M3/1H RAT INHALATION

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: Severe irritant.
May cause permanent damage.

Skin contact: Extremely corrosive.

Skin absorption: Not absorbed through the skin.

Inhalation: Corrosive to the respiratory system.
(mists or spray).

- Ingestion:** Extremely corrosive to the mouth and throat.
- Effects of chronic exposure:** See effects of acute exposure.
- Sensitization to product:** None known.
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** Effects have been reported in animals.
- Teratogenicity:** Not available.
- Mutagenicity:** Not available.
- Synergistic materials:** Not available.

Section 4 : FIRST AID MEASURES

- Skin contact:** Remove contaminated clothing.
Wash with mild soap and water.
Consult a physician if irritation persists.
- Eye contact:** Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.
- Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.
- Ingestion:** Obtain immediate medical attention.
Give large quantities of water to drink.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
- Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Not flammable.
- Conditions of flammability:** Will not burn.
- Extinguishing media:** Suitable for surrounding fire.
- Special procedures:** Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.
- Auto-ignition temperature (°C):** Not applicable.
- Flash point (°C), method:** Not applicable.
- Lower flammability limit (% vol):** Not applicable.
- Upper flammability limit (% vol):** Not applicable.
- Explosion Data**
- Sensitivity to static discharge:** Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Oxides of phosphorus (PO_x).
Phosphoric anhydride.

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Dilute with water.
Absorb with dry inert material.
Use corrosion-proof equipment.
Place in a closed container for disposal.
Neutralise with limestone, clay or chalk.
Small quantities of neutralised material may be flushed to sewer with plenty of water.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.

Storage requirements: Store away from incompatible materials.
Store in original container.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type:



Neoprene gloves.
Butyl rubber.
Natural rubber.
Polyvinyl chloride gloves.

Respiratory/Type: None required under normal use.
If exposed to misting.




Use NIOSH approved respirator for acid gases with dust/mist prefilters.

Eye/Type: 

Safety glasses with side-shields.



Face shield.

Footwear/Type: 

Impervious boots.
When splashing is possible.

Clothing/Type: Long sleeve shirt, long trousers.
When splashing is possible.



Apron
Impervious clothing.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Ventilate adequately.
As needed to stay below TLV.

Exposure limit of material: Not available.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Colourless.
Clear
Mobile liquid.
Odourless.

Odor threshold (ppm): None

Vapour pressure (mmHg): @ 20°C (68°F).
2.2mmHg – 5.6mmHg / 0.29kPa – 0.75kPa

Vapour density (air=1): As water.

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): Decomposes to pyrophosphoric acid on drying at 213°C.
158 – 135

Freezing point (°C): (melting point).
85%: 21°C , 75%: -17.5°C

pH: Strongly acid.
< 1.
(1% solution = 2.1).

Specific gravity @ 20 °C: 1.573 – 1.685

Solubility in water (%): Complete.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with incompatible substances.

Hazardous polymerization: Will not occur.

Incompatible substances: Cyanides.
Carbides.
Mercaptans.
Alkalies.
Phosphides.
Silicides.
Glass
Ferrous metals.
Porcelain.
Ceramic.
Stainless steel.
Sulphide.
Earth metals.

Hazardous decomposition Corrosive compounds.

products: Phosphoric anhydride.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 1800 mg/kg – rat oral.
3300 mg/kg rabbit dermal.
(Calculated for 85%).

LC50 of product, species & route: 1000 mg/m³ rat inhalation.
(Calculated for 85%).

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.
Dispose of waste product in a sanitary landfill.
May be incinerated.

Section 14 : TRANSPORT INFORMATION

TDG classification: PHOSPHORIC ACID, LIQUID, SOLUTION
UN1805
Class 8
PG III.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

E



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/07/30

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