



NORGLASS PAINTS

and Specialty Finishes

Australian Made / Australian Owned

Date of Issue: July 2014

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MATERIAL SAFETY DATA SHEET

PRODUCT: METAL-ETCH CLEANER

IDENTIFICATION

CLASSIFICATION	:	HAZARDOUS. According to criteria of Worksafe Australia
Product Name	:	METAL-ETCH
Other Names	:	Orthophosphoric Acid
Manufacturers Product Code	:	4091
UN Number	:	1805
Correct Shipping Name	:	Phosphoric Acid - Corrosive Liquid
Dangerous Goods Class & Subsidiary	:	8
Hazchem Code	:	N/A
Poison Schedule Number	:	S5 (Federal)
Use	:	Metal Cleaner

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	:	Pale yellow viscous liquid, Odourless
Boiling Point C°	:	Range 158 - 200
Vapour Pressure 25 C°	:	Not applicable
Specific Gravity	:	1.22
Flashpoint C°	:	Not combustible
Flammability limits:	:	Not applicable
pH	:	1.5
Solubility in water (G/L)	:	Completely Soluble
Acidity	:	Strong Acid

INGREDIENTS

Chemical Entity	CAS Number	Proportions
Phosphoric Acid Water	7664-38-2 -	35% Up to 100

HEALTH HAZARD INFORMATION

Health Effect	:	Strong acid should be handled with “EXTREME CARE”. Corrosive liquid can cause severe burns. Avoid skin contact inhalation or ingestion.
Acute Effects		
Swallowed	:	Mildly corrosive, causes burns upon ingestion, will cause irritation to the stomach and intestinal tract.
Eye	:	Corrosive. Can severely irritate eyes, prolonged contact may result in permanent damage.
Skin	:	Corrosive. Causes burns upon skin contact.
Inhaled	:	Vapours and mist spray may cause irritation of nose and throat.
Chronic Effects	:	
Skin	:	Dermatitis may occur from prolonged and repeated contact.

FIRST AID

Swallowed	:	If poisoning occurs, contact a doctor or Poisons Information Centre on 131 126 (Australia). If swallowed, do NOT induce vomiting. Give a glass of water.
Eye	:	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a Doctor.
Skin	:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly.
Inhaled	:	Vapours, mists and sprays are capable of causing irritation.
First Aid facilities	:	Eye wash fountains and safety showers should be available at place of use - Contact Poisons Information Centre on 131 126.
Advice to Doctor	:	Treat symptomatically, as for strong acids.
Animal Toxicity Data	:	LD50 (oral rats) 1530mg/kg. LD50 (rabbit skin) 2740mg/Kg

PRECAUTION FOR USE

Exposure standards	:	T.W.A. for Phosphoric Acid = 1mg/m ³ S.T.E.L. for Phosphoric Acid = 3mg/m ³
Engineering controls	:	Use in well-ventilated area. Maintain concentrations below recommended exposure limits.

- Personal Protection** : Protective equipment must be worn. PVC, neoprene, butyl or Nitrile rubber gloves. Waterproof apron, safety boots, safety glasses/goggles or a full-face shield. Avoid breathing vapours. If ventilation is not adequate then wear a respirator to the requirements of AS1715 and AS1716. Observe good standards of hygiene and cleanliness. Trousers, long sleeved shirt and closed in shoes or safety footwear should be worn as a general precaution.
- Flammability** : Not a flammable liquid - non-combustible.

SAFE HANDLING INFORMATION

- Storage and Transport** : This product should be stored in glass containers or other acid resistant materials. Protect containers from damage or breakage and store away from incompatible materials. Store in a cool, well ventilated place. Keep containers well closed. Store away from food, foodstuff, drinks and clothing. Keep out of reach of children. Do not re-use empty containers. Dispose items according to local regulation. Do not contaminate drains, streams and waterways. If the product needs to be diluted, acid to be added slowly to water with extreme care, to prevent splashing. Acid vapours may accelerate metal corrosion.
- Spills and disposal** : Wear protective equipment. Prevent material from entering sewers, drains, streams and confined spaces. Small spills can be neutralised with - Sodium Bicarbonate/Baking Soda. Shovel residue into labelled containers for disposal according to local regulation. Large spills neutralise with lime (CaO) or Soda Ash (Lime is the best). Residue should be disposed of according to Federal State or Local Regulation. Hazardous polymerisation will not occur. Corrosive attack on most metals. Avoid strong oxidising and reducing agents.
- Fire/Explosion Hazard** : Material does not burn. Use appropriate media to extinguish source of fire. Water spray may be used to control vapour. The combustion product is Phosphorous Oxides.
- Other Handling Information:** Product reacts violently with Sulphides, Phosphides, cyanides, acetylates, fluorides, carbides. Reaction can release poisonous gases. Potentially dangerous reaction can occur with strong oxidising and reducing agents. Avoid bases.
KEEP OUT OF REACH OF CHILDREN
- Contact Point:** Mr Les Baker
NORGLASS LABORATORIES PTY. LIMITED
Phone: (02) 9708 2200

The information contained in this material safety sheet is based on tests carried out by our research centres and data selected from literature, but shall in no event be held to constitute or imply any warranty or understanding. No liability whatsoever can be accepted with regard to handling, processing or use of the product or products concerned, which in all cases be employed with due regard to all relevant regulations and/or legislation in the country or countries concerned.

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