

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Metal-Etch**
 Item Code: 4091
 Product Use: Metal Cleaner
 Restriction of Use: Refer to Section 15

Australian Supplier: **Norglass Paints**
 Address: 59 Moxon Road
 Punchbowl NSW 2196
 Australia
 Telephone: +61 2 9708 2200
 Email: info@norglass.com.au

New Zealand Supplier: xxx
 Address: xxx
 Telephone: 0508 724687

Emergency Numbers:
Australia: 13 1126 (Poisons Information Centre)
New Zealand: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 1 August 2017

Section 2. Hazards Identification

This substance is hazardous according to:
New Zealand - The HSNO (Minimum Degrees of Hazard) Regulations 2001
Australia – This substance is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

New Zealand:
EPA Approval No: HSR001545

Pictograms



Toxic



Corrosive

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.1E (dermal)	H313	May be harmful in contact with skin.	Category 5

8.1A	H290	May be corrosive to metals.	Category 1
8.2C	H314	Causes severe skin burns and eye damage.	Category 1C
8.3A	H318	Causes serious eye damage.	Category 1
9.1D	H401	Toxic to aquatic life.	Category 4
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Phosphoric Acid	35	7664-38-2
Water	To bal	7732-18-5

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting. Give a glass of water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place

victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Advice to Doctor Treat symptomatically, as for strong acids.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	The combustion product is Phosphorous Oxides.
Suitable Extinguishing media	Use appropriate media to extinguish source of fire. Water spray may be used to control vapour.
Precautions for firefighters and special protective clothing	Wear full body protection and self-contained breathing apparatus.
HAZCHEM CODE	2R

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Adequate steps should be taken to prevent spillage reaching waterways and drains.

Small spills can be neutralized with Sodium Bicarbonate or 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 Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Keep only in original container.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- Keep out of reach of children.
- This product should be stored in glass containers or other acid resistant materials.
- Protect containers from damage or breakage.
- Store in a cool, well ventilated place.
- Keep containers well closed.
- Store away from food, foodstuff, drinks and clothing.
- Do not re-use empty containers.
- 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.

Section 8**Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Phosphoric acid [7664-38-2]	-	1	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Use in well-ventilated area. Maintain concentrations below recommended exposure limits.

Personal Protection Equipment

Eyes	Wear safety goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	Wear PVC, neoprene, butyl or Nitrile rubber gloves. Waterproof apron, safety boots must be worn. Trousers, long sleeved shirt and closed in shoes or safety footwear should be worn as a general precaution.
Respiratory	Avoid breathing vapours. If ventilation is not adequate then wear a respirator to the requirements of AS1715 and AS1716.
General	Observe good standards of hygiene and cleanliness.

Section 9**Physical and Chemical Properties**

Appearance	Pale yellow viscous liquid
Odour	Odourless
Odour Threshold	Not available
pH	1.5
Boiling Point	158 – 200 ⁰ C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Exposure Limits	Not available
Volatile Component	Not available
Vapour Pressure	Not available
Specific Gravity	1.22
Solubilities	Completely soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Acidity	Strong acid

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Avoid bases. Corrosive attack on most metals. Avoid strong oxidising and reducing agents.
Incompatible Materials	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.
Hazardous Decomposition Products	Material does not burn. The combustion product is Phosphorous Oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD50 (oral rats) 1530mg/kg.
Dermal	May be harmful in contact with skin. LD50 (rabbit skin) 2740mg/Kg
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

New Zealand:

HSNO Classes: 9.1D = Toxic to aquatic life.
9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Place recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations. Ensure container is sealed and isolated away from ignition sources.

Precautions: Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Corrosive, Ecotoxic". If triple rinsing container, add rinsate to waste container for disposal.

Disposal methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012 and Australian Dangerous Goods Code ADG7 and NOHSC:1008(2004)

Road and Rail Transport

UN No: 1805

Product Name: Metal-Etch
Date of SDS: 1 August 2017

Issued by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Class-primary 8
Packing Group III
Proper Shipping Name: PHOSPHORIC ACID, SOLUTION

Air Transport

UN No: 1805
Class-primary 8
Packing Group III
Proper Shipping Name: PHOSPHORIC ACID, SOLUTION

Marine Transport

UN No: 1805
Class-primary 8
Packing Group III
Proper Shipping Name: PHOSPHORIC ACID, SOLUTION

Dangerous Goods exempt is transporting in quantities of $\leq 5\text{kg/L}$.

Section 15 Regulatory Information

This substance is hazardous according to:
Australia – This substance is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule: Schedule 5

New Zealand - The HSNO (Minimum Degrees of Hazard) Regulations 2001

EPA Approval Code: HSR001545

HSNO Classification: 6.1D(oral), 6.1E(dermal), 8.1A, 8.2C, 8.3A, 9.1D, 9.3C

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (8.1A)
Emergency Response Plan	1000L (6.1D)
Stationery containment	1000L (6.1D)
Restriction of Use	None

Section 16 Other Information

Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.
2. Safework Australia: Preparation of SDS sheets for hazardous chemicals(Code of Practice).

Disclaimer

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Please contact the Australian distributor, if further information is required.

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Review Date:

1 August 2022