

Material Safety Data Sheet

MSDS No: PER030

Issue No:3

IMPORTANT

Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

1. IDENTIFICATION

Product Name	Perfect Etch 12g Phosphoric Acid Etching Gel
Company Name	Perfection Plus Ltd
Company Address	6 Westwood Court, Brunel Road, Totton, Hants SO40 3WX UK
Company Phone No.	+44 (0) 2380 866 677

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Contents: Enamel Conditioner

Hazardous Ingredients:

Hazardous Components	C.A.S. #	Classification	WT %
Phosphoric Acid	7664-38-2	EU DSD/DPD: Annex I: C; R34 EU CLP: Annex VI: Skin Corr. 1B, H314, Corr. to Metals 1, H290 OSHA HCS 2012: Skin Corr. 1B, H314, Corr. to Metals 1, H290	35.0-39.0%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

3. HAZARDS IDENTIFICATION

3.1 Classification of the Substance or Mixture:

Health	Environmental	Physical
GHS Classification: Corrosive to Metals 1 – H290 Skin Corrosion 1B – H314 EU Classification: Corrosive (C), R34	Not Hazardous	No Physical Hazards

3.2 Label elements:

Hazard pictograms:



Signal Word: Danger

Hazard Phrases	Precautionary Phrases
<p>H290 – May be corrosive to metals H314 - Causes severe skin burns and eye damage</p>	<p>P264 – Wash thoroughly after handling P280 – Wear protective gloves/protective clothing/eye protection/ face protection P390 - Absorb spillage to prevent material damage. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P363 - Wash contaminated clothing before reuse. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment (see supplemental first aid instructions on this label). P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents and container in accordance with local and national regulations.</p>

4. FIRE FIGHTING MEASURES

4.1 Suitable Extinguishing Media:

Not combustible. Use extinguishing media suitable for surrounding fire.

4.2 Special Hazards Arising from the Substance or Mixture:

Not combustible. Under fire conditions, toxic, corrosive fumes are emitted.

4.3 Advice for Fire-Fighters:

- Fire Fighting Procedures: General: Evacuate all personnel; use protective equipment for fire-fighting.
- Precautions for Fire Fighters: Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

5. FIRST AID MEASURES

5.1 Description of First Aid Measures:

Eye	In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.
Skin	For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse.
Inhalation	Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air.
Ingestion	If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

5.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Refer to Section 11 – Toxicological Information

5.3 Notes to Physicians (Treatment, Testing, and Monitoring):

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Avoid contact with skin, eyes or clothing.
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	Wear appropriate protective clothing as described in Section 8.
Environmental Precautions	Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.
Methods for cleaning up	Exercise caution during neutralization as considerable heat may be generated. Neutralize spill area with soda ash, sodium bicarbonate or lime. Flush neutralized spill with copious amounts of water.
Reference to Other Sections	Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. This product reacts violently with bases liberating heat and causing spattering.
Conditions for Safe Storage, Including Any Incompatibilities	Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from incompatible materials. Keep container closed to prevent contamination.
Specific End Use (s)	Refer to Section 1.2 – Relevant identified uses.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls:

Appropriate Engineering Controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual Protection Measures (PPE)	
Respiratory	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
Eye/Face	Wear face shield and eye protection. An emergency eye wash must be readily accessible to the work area. Ensure safety shower is available near all areas of bulk storage, delivery and use.
Hands	Wear protective gloves selected with regard to both durability as well as permeation resistance.
Skin/Body	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 25°	Gel
Colour	Green

Odour	None
Melting Point/Range	Not determined
Boiling Point (°C)	Not determined
Viscosity	Not determined
Relative density	1.25 to 1.30g/cc @25°C/77° F
Solubility in Water	Partially Soluble
pH	1.00-1.50

10. STABILITY AND REACTIVITY

Reactivity: Stable at ambient temperature and under normal conditions of use.
Chemical Stability: Stable at standard temperature and pressure.
Possibility of Hazardous Reactions: None known.
Conditions to Avoid: Keep away from heat, sparks, incompatible materials, flames and other sources of ignition.
Incompatible materials: High temperatures, strong oxidizing agents. Keep away from sunlight and open flames.
Hazardous Decomposition Products: Oxides of phosphorus.

11. TOXICOLOGICAL INFORMATION

Chronic Effects	No chronic health effects reported
Target Organs	No target organs reported.
Carcinogenicity	Not classified.
NTP	No
IARC	No

12. ECOLOGICAL INFORMATION

Toxicity: No data available.
Persistence and Degradability: No data available.
Bio-accumulative Potential: No data available.
Mobility in Soil: No data available.
Results of PBT and vPvB Assessment: No data available.
Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Do not dispose into sink. Dispose in accordance to local and national regulations.
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14. TRANSPORTATION INFORMATION

14.1. UN number UN 1805
14.2. UN proper shipping name

Phosphoric Acid Solution

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None known

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

15. REGULATORY INFORMATION

EC Medical Device Directive: Class IIa product

WHMIS Canada: Class E - corrosive liquid.

DSCL (EEC): R34 – Causes burns.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health: 3	Flammability: 0	Reactivity: 0
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Full text of Classification abbreviations used in Section 2 and 3:

H290	May be corrosive to metals.
H314	Causes severe burns and eye damage; Skin Corrosion 1B.
Xi	Irritants.
R34	Causes burns.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.
S39	Wear eye/face protection.

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ISSUE No: 3

**SUPERSEDES
ISSUE: 2**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission Directive 91/155/EEC.

DISCLAIMER OF LIABILITY



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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Emergency Phone No: 023 8086 6677