

HYDRAGUARD LIMITED

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: DP
CHEMICAL IDENTITY: Inhibited Phosphoric Acid 48%
RECOMMENDED USE: Descaler

1.2

Hydraguard Limited
Rose Croft
Newton on Rawcliffe
Pickering
North Yorkshire YO18 8QE
Tel No. 01751 475964
email: ryedale@aol.com

2. HAZARDS IDENTIFICATION

Causes burns
Classification : C; R34

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	30-60%	C;R34

The full text for all R-Phrases are Displayed in Section 16

4. FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention immediately!
Skin Contact: Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention immediately.
Eye Contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-fighting extinguishing media appropriate for surrounding materials.
Unusual Fire & Explosion Hazards Contact with certain metals liberates highly flammable hydrogen gas which may form an explosive mixture with air.
Specific Hazards: In case of fire, toxic and corrosive gases may be formed.
Protective Measures in Fire: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE METHODS

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet..
Environmental Precautions: Avoid discharge to the aquatic environment.
Spill Clean up Methods: DO NOT TOUCH SPILLED MATERIAL! . Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water to clean spillage area.

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7. HANDLING AND STORAGE:

Usage Precautions: Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Provide good ventilation. Avoid eating, drinking and smoking when using the product.

Storage Precautions: Keep upright. Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.

Storage Class Corrosive storage

8. EXPOSURE CONTROLS

Name	Std	LT – ppm	LT – mg/m3	ST – ppm	ST – mg/m3
PHOSPHORIC ACID%	OES		1 mg/m3		2 mg/m3

Ingredient comments OES = Occupational Exposure Standard

Protective Equipment: Wear approved Safety goggles or face shield and protective gloves

Process Conditions: Use engineering controls to reduce air contamination to permissible exposure level.

Respiratory Equipment: If ventilation is insufficient, suitable respiratory protection must be provided

Hand Protection: Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye Protection: Wear approved safety goggles or face shield.

Skin Protection: Wear apron or protective clothing in case of contact

Other Protection: Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

Hygiene Measures: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear Liquid

Colour Purple

Odour Pungent

Solubility Completely soluble in water

Relative Density 1.2 – 1.4

pH Value, Conc solution <1

10. STABILITY AND REACTIVITY

Stability Stable under normal temperature conditions and recommended use.

Conditions to Avoid Avoid excessive heat for prolonged periods of time.

Materials to Avoid Strong alkalis.

Hazardous Decomposition Products Attacks many metals with the liberation of hydrogen gas which is highly flammable and may form an explosive mixture.

11. TOXICOLOGICAL INFORMATION

Inhalation Inhalation of spray mists may cause irritation.

Ingestion Causes burns. May cause severe internal injury.

Skin Contact Causes burns. Corrosive. Prolonged contact causes serious tissue damage.

Eye Contact Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

12. ECOLOGICAL INFORMATION

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product is mildly toxic to aquatic organisms. The product may affect the acidity factor (pH factor) in water with risk of harmful effects to aquatic organisms.

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13. DISPOSAL CONSIDERATIONS

General Information Waste is classified as special waste.
Disposal Methods Neutralise residues with sodium carbonate or bicarbonate and finally flush area with plenty of water.
Dispose of waste and residues in accordance with local authority requirements
Container Triple rinse empty container thoroughly with water before disposal.

14. TRANSPORT INFORMATION

LAND TRANSPORT

UN Road Class	8		
Proper Shipping Name	PHOSPHORIC ACID		
UN No. Road	1805	UK Road Packing Group:	III
ADR Class No.	8	ADR Class:	Class 8: Corrosive substances
ADR Pack Group	III	ADR Label:	8
Hazard ID No	80	Hazchem Code	2R
RID Class No.	8	RID Pack Group	III
CEFIC TEC® No	80GC3-II+III, 80GC2-II+III		
UN No Sea	1805	IMDG Class	8
IMDG Pack Gr.	III	EMS	F-A, S-B
MFAG	See Guide	Marine Pollutant	No.
UN No. Air	1805	ICAO Class	8
Air Pack Gr	III		

15. REGULATORY INFORMATION

Labelling	Corrosive
Contains	Phosphoric Acid 47.9952%
Risk Phrases	R34 Causes burns
Safety Phrases	S23 Do not breathe vapour/spray S24/25 Avoid contact with skin and eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27 Take off immediately all contaminated clothing S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S60 This material and its container must be disposed of as hazardous waste.
UK Regulatory References	Chemicals (Hazard Information & Packaging) Regulations
Approved Code of Practice	Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

16. OTHER INFORMATION

Revision Date:	3-2008
Risk Phrases in Full	R34 Causes burns

DISCLAIMER

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health and Safety Legislation. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.