

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: H₂YDRO CLEAN (RFU) (DI031)
 Synonyms: Acidic Solution of inorganic salts and organic materials.
 Description: Surface cleaner and preparation product for steel.
 Company: Dura Paints (Pty) Ltd
 Address: 5 Wakefield Road, Founders View South, Edenvale, 1610, South Africa
 Contact us on: +27 11 452-5221

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Class:
 Classification: Not classified as hazardous.
 Comment: Liquid form
 Hazardous and or other relevant components:

	%m/m	CAS No.	EC No	C.I. No
Phosphoric Acid	>3 %	7664-38-2	231-633-2	NA
Dioxitol	>1 %	111-90-0	203-919-7	NA

3. HAZARDS IDENTIFICATION

Flammable: Non-flammable.
 Harmful: Ensure sufficient ventilation, avoid inhalation of vapours. Avoid contact with skin or eyes.
 Ingestion: Irritating and nauseating. Possible discomfort.
 Skin contact: No hazard expected if used in moderation, direct contact to be avoided. Possible irritation.
 Inhalation: Possible irritation of respiratory tract if mist is inhaled.
 Eye contact: May cause irritation, avoid contact.
 Principle routes of exposure: Eyes.
 Carcinogenicity: No ingredient in this product is listed as carcinogenic by the IARC.
 Chemical hazard: Reacts with alkaline.
 Physical hazard: May cause slippery conditions if spilt.
 Environmental effects: pH effect. Contains phosphates and sodium.

4. FIRST AID MEASURE

Ingestion: Wash mouth with plenty of water. Give plenty of water to drink. Do not induce vomiting. Seek medical attention.
 Skin: Wash with soap and water or a recognised skin cleaner. Avoid use of solvents.
 Inhalation: Move to fresh air. In case of discomfort seek medical attention.
 Eyes: In case of contact immediately flush eyes with clean water for at least 30 minutes. Obtain medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not pertinent. This product is non-flammable. Use media suited to surrounding materials.
 Special Hazards: PO_x can be generated in fire situation.
 Protective Equipment: Always wear PPE, PVC gloves, apron, safety glasses and self-contained breathing apparatus when fighting a chemical fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Surface may be slippery. Wear protective equipment to prevent skin and eye contact and breathing vapours.
 Environmental Precautions: Do not allow product to enter sewage drains, soil or watercourses.
 Clean up method: Contain & collect spillage with non-combustible absorbent material and dispose of according to local regulations. Do not allow product to enter drains and sewers.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Handling

Technical measures:	Provide adequate ventilation
Prevention of user exposure:	Wear protective gear as outline in section 8.
Precautions:	Do not inhale mists. Do not carry open containers.
Safe handling advice:	Keep container closed when not in use.

Storage

Incompatible products:	Alkaline.
Packaging materials:	Keep in original container.
Storage conditions:	Store in a cool, dry, well ventilated area away from direct sun, sources of heat, and severe cold.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Provide good ventilation, especially where material is spray applied. Install an eye wash bottle or fountain at or near the work area.

Occupational exposure limits:

Phosphoric Acid:	TWA OEL-RL =	1 mg/m ³
	ST OEL- RL =	3 mg/m ³
Dixitol	TWA OEL-RL =	120 mg/m ³ (25 ppm)

Inhalation:

Skin: In case of insufficient ventilation use suitable respiratory protection. Avoid contact as far as possible. Observe the rules of hygiene. Wash before eating, drinking or smoking. Use barrier cream and gloves. Impervious gloves are recommended. Wear acid resistant overalls.

Eyes:

Ingestion: Avoid direct contact. Never touch eyes with dirty hands or gloves. Use safety glasses. Observe the rules of hygiene. Wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Odour:	Barely perceptible
Colour:	Clear	pH:	Neat, 3 - 5 at 25°C
Specific Gravity (g/ml):	1.02kg @ 25°C	Water solubility:	Water miscible
Flash Point:	None - Not a flammable product		

10. STABILITY AND REACTIVITY

Stable under normal conditions.	
No reaction with fire-fighting water.	None known
Incompatibility (material to avoid):	Alkaline materials
Conditions to avoid:	Store out of direct sunlight Excessively high temperatures
Hazardous decomposition products	Toxic oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Eyes:	Possible irritation may cause redness and pain
Skin:	Possible irritation, redness and itching
Ingestion:	Possible abdominal discomfort
Inhalation:	Possible irritation and discomfort of the respiratory tract if mists or aerosols are inhaled

Local Effects:

Skin:	Possible irritation, redness and itching
Mucous membranes:	Possible irritation may cause pain

12. ECOLOGICAL INFORMATION

<p>Mobility: Persistence / degradability</p> <p>Eco-toxicity:</p>	<p>This product is miscible in water and is therefore mobile in it. The inorganic components of this product are expected to deionise. The organic components are expected to biodegrade at the low concentrations present in the product.</p> <p>The product contains phosphates that can lead to overfeeding or eutrophication of aqueous ecosystems. This in turn can lead to algal blooms that may cause fish kills. The product can alter the pH of any system that it enters. The degree of the change depends on the magnitude of the spill and the prevailing conditions within the receiving system. The product also contains sodium that is harmful to all organisms to varying degrees, if it is present in sufficiently large concentrations.</p>
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May have short term environmental effects. Contain, monitor & remove. Do not discharge into lakes, streams, ponds, etc.

13. DISPOSAL CONSIDERATIONS

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Exercise caution in disposal of used containers

<p>Waste from residues: Contaminated Packaging:</p>	<p>Dispose of using authorised collectors according to local regulations and national legislation. Empty containers may contain residues. Dispose of according to local regulations and national legislation. Containers could be cleaned with suitable cleaning agent and recycled.</p>
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14. TRANSPORT INFORMATION

<p>HAZARD CLASS: UN / S.I.N NUMBER:</p>	<p>Low Hazard Material - Environment None</p>
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15. REGULATORY INFORMATION

<p>Classification: S-Phrases R-Phase</p>	<p>Low Hazard Material - Environment None None</p>
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16. OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, whether expressed or implied is made. All information is given in good faith, but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereof. The current version of this MSDS and a Technical Data Sheet (TDS) are available from Dura Paints website - www.durapaints.co.za.

C	=	Ceiling limit	NEGL	=	Negligible
EST	=	Estimated	NF	=	None found
NA	=	Not applicable	UNKN	=	Unknown
NE	=	None established	REC	=	Recommended
ND	=	None determined	V	=	Recommended by vendor
TS	=	Trade secret	SKN	=	Skin
R	=	Recommended	MST	=	Mist

END OF MSDS