

PROTON RENOVATE™

Section 1. Chemical Product and Company Information	
Product Name	PROTON RENOVATE
Product Use	Powdered Glass Refurbisher. This product is intended to be diluted prior to use.
MSDS#	PRO 1002
Manufacturer	The Proton Group Limited
US Distributor	Banner Equipment Co. 1870 Bungalow Road Morris Illinois 60450 Phone: 800-621-4625
Issue Date:	21/01/2005
In Case of Emergency	800-621-4625

Section 2. Composition and Information on Ingredients				
Ingredients	CAS#	% by Weight	Exposure Limits	LC 50/LD50
Tribasic Sodium Phosphate Dodecahydrate	10101-89-0	>50%	None listed	Oral, rat: LD50 = 7400 mg/kg
Sodium Carbonate	497-19-8	<10%	None listed	Inhalation, rat: LC 50 = 1200 mg/m ³ /2H Oral, rat: LD50 = 4090 mg/kg
Sodium Dichloro Isocyanurate Dihydrate	51580-86-0	<10%	0.5 mg/m ³ TWA 8 hours 1.5 mg/m ³ STEL 15 mins	Oral, rat: LD50 = 735 mg/kg
Sodium Metasilicate	6834-92-0	<10%	2 mg/m ³ OEL based on data from analogous chemicals	Oral, rat: LD50 = 1153 mg/kg
Sodium Tripolyphosphate	7758-29-4	>25%	None listed	Oral, rat: LD50 = 285 mg/kg

Section 3. Hazards Identification	
Routes of entry	Inhalation, skin contact, eye contact, ingestion
Potential acute health effects	Eyes – Corrosive to eyes, causes irreversible eye damage Skin – May cause burns to skin Inhalation – May cause burns to the respiratory tract Ingestion – May cause burns to the gastrointestinal tract with the potential to cause perforation.

Medical conditions aggravated by overexposure	None known
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Section 4. First Aid Measures

Eye contact	Immediately flush with water. Remove contact lenses. Then flush eyes with water for 15 minutes. Get medical attention immediately.
Skin contact	Immediately flush with water. Remove contaminated clothing. Wash contaminated areas with soap and water. Get medical attention immediately.
Inhalation	Remove person to fresh air. Get medical attention immediately.
Ingestion	Rinse mouth. Give water. Do not induce vomiting. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the product	Non combustible
Flash points	N/A
Products of combustion	N/A
Fire fighting media and instructions	Use extinguishing medium appropriate to surrounding fire conditions.
Protective clothing (fire)	As appropriate to conditions and surrounding environment.
Special remarks on fire and explosion hazards	

Section 6. Accidental Release Measures

Personal Precautions	Gloves / overalls may be appropriate. See personal protection/exposure controls.
Environmental precautions and clean-up methods	Dilute to drain with copious quantities of water. Observe local authority waste disposal regulations

Section 7. Handling and Storage

Handling	Adopt normal chemical handling techniques to prevent unnecessary exposure and good personal hygiene practices. Avoid contact with eyes and skin.
Storage	Store in original packages away from sources of heat and frost.

Section 8. Exposure Controls / Personal Protection

Engineering controls	Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.
Personal protection	Eyes – Protect eyes from exposure to powder when opening package. Safety goggles are recommended for spills or if exposure to powders is likely.
	Hands – Protect skin from exposure to powder when opening package. Gloves are recommended for spills or if exposure to the powder is likely.

	Respiratory – If dust is not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure.
	Body – If major exposure is possible, wear suitable protective clothing and footwear.

Section 9. Physical and Chemical Properties

Physical state and appearance	Powder
Odor	Chlorine
Color	White
pH	11.5 @ 1%
Specific gravity	N/A
Solubility in water	Slight

Section 10. Stability and Reactivity

Stability	Stable at ambient conditions.
Reactivity	
Conditions of instability	Elevated temperatures and moisture.
Incompatibility	Contact with acids will liberate toxic chlorine gas.
Hazardous polymerization	N/A
Hazardous decomposition	N/A

Section 11. Toxicological Information

Acute toxicity	Low toxicity
Effects of chronic exposure	None known
Other toxic effects	None known

Section 12. Ecological Information

Not available

Section 13. Disposal Considerations

Waste information	Collect and dispose of the waste in accordance with applicable local, state and federal laws.
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Section 14. Transport Information

DOT Proper Shipping Name	Not applicable
DOT Class	
UN No.	
Packing Group	
DOT Special Considerations	

Section 15. Regulatory Information

Registered product information	
Chemical Inventory Status	All ingredients of this product are listed or excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory