

# A-1

## Heavy Duty Commercial Hard water Stain Remover

**For use on:**

Windows, Windshields, Showers, Boats, Fiberglass, Porcelain, Tile,  
Aluminum & Stainless Steel.

Contains a unique engineered abrasive that greatly speeds restoration and cleaning.  
This product is a NON-ACID

**A-1 Hard Water Stain Remover** will not only remove hard water spots, but also shines aluminum, stainless steel, copper, and other metals. A-1 Hard Water Stain Remover contains a uniquely engineered abrasive that greatly speeds cleaning and restoration of most surface, including glass, porcelain, fiberglass, and tile. Removes and cleans mineral deposits, acid rain, cement leaching, silica, screen burn, soap scum, oxidation, scale, lime, corrosion, chalking and rust.

**Safely Removes and Cleans:**

Mineral Deposits, Acid Rain, Cement Leaching, Silica, Screen Burn, Soap Scum, Oxidation, Scale, Lime, Corrosion & Chalking, Rust.

**Coverage:** On glass, from 1,000 to 4,000 square feet per gallon, depending on job conditions and actual spotting coverage on each pane. You obtain better coverage with hand application using steel wool than with power equipment.

**Material Cautions:** Test first. Especially on plastics laminates, or marble, where A-1 is probably OK to use, but the scrubbing and buffing process might leave scratches. Not recommended for use on optical coatings or lacquered brass. Protect vehicles and surrounding surfaces from splatter.

- Water Based
- Biodegradable
- Made in U.S.A
- Titan Laboratories 2235 Mora Drive Mountain View, CA 94040  
650-9659900 800-475-3300 Fax 605-964-4400

## Section 1 – Product Source and Identity

Supplier identity and address	Product description:      Date: July 18, 2005
Titan Laboratories 2235 Mora Drive Mountain View, CA 94040	
Emergency: 650-965-9900 or CHEM-TEL 800-255-3924	Product info. : 650-965-9900

## Section 2 – Shipping Classification

Proper Shipping name, Hazard Class, UN/NA Number Packing Group, Emergency Response
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Guide Number Not regulated
Labels required per 49 CFR 172. 101: None
Qualifies for "Limited quantity" per 49 CFR 173.150-.155: Not applicable
Reportable Quantity ("RQ") per 49 CFR 172.101: None or not possible in one non-bulk package

### Section 3- Safety Ratings and Hazardous Ingredient Information

Reporting Required by Title III Sec 313, 40 CFR 372, 29 CFR 1910.1200					Exposure Limit Values	
Cas#	313	Material or Component	%	RQ#	TWA	STEL
64742-47-8	NO	Petroleum Distillate	<20	None	100 ppm (PEL)	
1336-21-6	YES	Aqueous Ammonia	<1	1000	25 ppm	35 ppm
61790-53-2	NO	Silica amorphous	<30	None	10 ppm or 3 mg/m3 as a dust	
No component is listed in "THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES FOR 2004" from ACGIH except as noted above. Components listed in TITLE III SEC 313 (EPCRA) are indicated by "Yes" above.						
California criteria: Constituents qualifying as hazardous materials, substances or waste, other than above, if any, have been neutralized or denatured to a non hazardous condition. Regulations referenced: California Health & Safety Code Ch 6.95 Sec 25501(K) & (I), CCR Title 22, Sec 66261.21- .24 and Appendix X of 22 CCR Chapter 11, Article 4.						
Emergency overview: Non scratching abrasive cleaner with solvent. Keep out of eye. Avoid extended skin contact. Do not breathe dust or vapors. Keep lid on container when not in use.						
Hazard Categories:	Health	Fire	Pressure	Reactivity		
Immediate	Yes	No	no	no		
Delayed	No	xxx	xxx	xxx		
Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.						
HMIS Hazard ratings: Health 1 Fire 0 Instability 0 Other B(Glasses, gloves)						
NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA						
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4						
Threshold limit value: Not established on product						
TOSCA Status: All ingredients listed			CERCLA RQ: See Sec. 2			
California Prop. 65: None						

### Section 4 – Physical and Chemical Properties

Appearance:	Creamy off white liquid	Flash point deg. F (cc):	None
Odor:	Lemon ammonia	Initial boiling point deg. C:	ND
Specific gravity:	1.09	Vapor pressure 20 deg. C:	ND
PH reaction:	10-11	Freezing point deg. C:	ND
% phosphorous:	None	Solubility in water:	50%
VOC: Content: 209 g/L approx			
California Rule 102 (66): Contains no photo chemically active materials			
Reproductive implications:		None	
Ingredients on cancer list:		None	

### Section 5 – Safe Handling and Storage

General	Mild abrasive solvent cleaner. Store in a cool place. Keep out of eyes and off of skin. Use standard industrial good practices. Wipe up spills immediately.
Protective equipment	
Eyes	Safety glasses or goggles should be worn if there is possibility of eye contact.
Skin	Impermeable gloves such as rubber, PVC or neoprene are recommended.
Respiratory protection	None normally required. If risk of inhalation occurs, select and use equipment according to OSHA/NIOSH guideline.
Ventilation	A well ventilated work environment is recommended.

Other		Keep lid on containers.	
Section 6 – Health Safety Data			
Effects of chronic overexposure			
Eyes		None	
Skin		Can cause irritation from repeated exposure.	
Inhalation		Mists may be irritation to breathing passages.	
Ingestion		Not a likely source of chronic exposure.	
Section 7 – Physical Stability and Reactivity Data			
Explosive Limits		Flash point: See Sec. 4	
Upper ND	Lower ND	Conditions to avoid: Exposure to heat and evaporation	
Chemical stability		stable	
Hazardous decomposition products:		None know	
Hazardous polymerization		Cannot occur	Incompatibility: Oxidation chemicals like peroxides, etc.
Section 8 – Emergency Response Procedures			
Fire	Extinguishing media	Use materials appropriate to the main source of the fire	
	Special procedures	None	
	Usual hazards	None	
First Aid	Eyes	Flush with water for at least 15 min. Seek medical attention if appropriate.	
	Skin	Wash exposed skin with soap and water till gone. Remove affected clothes, rinse off product and wash clothes before reuse.	
	Inhalation	If affected, remove individual to fresh air, get medical attention at once if there is any discomfort.	
	Ingestion	Dilute by giving large amounts of milk or water. Get medical attention immediately. Do not induce vomiting.	
Spills	Small / Large spills	Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills. Floors may be slippery. Keep out of waterways and storm sewers.	
Product as made dose not qualify as an “Unlisted Hazardous Waste” for disposal situations.			
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