

**MATERIAL SAFETY DATA SHEET**

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

**U.S. DEPARTMENT OF LABOR**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

BRADY HARD WATER STRIPPER

**SECTION I**

Distributor's Name

BRADY INDUSTRIES, INC.

Emergency Telephone Number

(800) 424-9300

Address (Number, Street, City, State &amp; ZIP Code) Telephone Number for Information

4175 SOUTH ARVILLE

(702) 876-3990

LAS VEGAS, NEVADA 89103

Date Prepared

03/24/01

Signature of Preparer (optional)

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Recommended Other Limits	% (optional)
PHOSPHORIC ACID CAS #7664-38-2	1mg/M <sup>3</sup>	1mg/M <sup>3</sup>	NONE	5-15%
HYDROCHLORIC ACID CAS #7647-01-0	5PPM	5PPM	NONE	2-10%
AMMONIUM BIFLUORIDE CAS #1341-49-7	TLV	2.5MGS/M <sup>3</sup>		1-5%

DOT CLASS: CORROSIVE LIQUIDS, N.O.S.  
(HYDROCHLORIC ACID MIXTURE)  
8, UN1760, PGII

ISOPROPANOL OR ISOPROPYL ALCOHOL  
3, UN1219, PGIII  
FLAMMABLE LIQUID

**HAZARD RATING:****4-EXTREME****3-HIGH****2-MODERATE****1-SLIGHT****0-INSIGNIFICANT**

**HEALTH = 2**  
**FIRE = 0**  
**REACTIVITY = 1**  
**SPECIFIC HAZARDS = N/A**

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point	212°F	Specific Gravity (H2O = 1)	1.08
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density	N/A	Evaporation Rate (Butyl Acetate = 1)	NOT TESTED
Solubility in Water	COMPLETELY SOLUBLE, REST IS DISPERSIBLE	pH	0.3
Appearance and Odor	CLEAR COLORLESS LIQUID WITH MILD CHEMICAL ODOR		

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NOT FLAMMABLE		N/A	N/A
Extinguishing Media	USE MEDIA APPROPRIATE TO THE SURROUNDING FIRE.		
Special Fire Fighting Procedures	USE SELF-CONTAINED BREATHING EQUIPMENT		
Unusual Fire and Explosion Hazards	IF CONTAINER IS HEATED AND PUNCTURED, HEAT WILL PRODUCE CORROSIVE VAPORS. THESE VAPORS WILL CAUSE BURNS TO EXPOSED AREA OF THE BODY.		

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**SECTION V - REACTIVITY DATA**

<b>Stability</b>	Unstable	Conditions to Avoid
	Stable	xxx HEAT AND STRONG ALKALI

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Incompatibility (Materials to Avoid)

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**CAUSTIC SODA, CAUSTIC POTASH, AND OTHER ALKALIS**

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Hazardous Decomposition or Byproducts

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**N/A**

<b>Hazardous</b>	May Occur	Conditions to Avoid
<b>Polymerization</b>	Will Not Occur	xxx NONE

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**SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

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Health Hazards (Acute and Chronic)

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**THIS IS A POWERFUL COMBINATION OF ACIDS AND IS EXTREMELY CORROSIVE TO TISSUE**

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Emergency and First Aid Procedures

**EYES:** FLUSH WITH RUNNING WATER FOR 15 MINUTES RAISING UPPER AND LOWER EYELIDS PERIODICALLY. GET MEDICAL ATTENTION.

**SKIN:** WASH WITH SOAP AND WATER, GET IMMEDIATE MEDICAL ATTENTION.

**INHALATION:** MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF REQUIRED. GET IMMEDIATE ATTENTION.

**INGESTION:** DO NOT INDUCE VOMITING. DRINK WATER, MILK OR MAGNESIA IF POSSIBLE, GET IMMEDIATE MEDICAL ATTENTION.

**NOTE: DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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Steps to Be Taken in Case Material is Released or Spilled

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**WEAR PROTECTIVE CLOTHING AND GOOD VENTILATION IS REQUIRED.**

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**SMALL SPILL: NEUTRALIZE WITH SODA ASH: SOAK UP WITH ABSORBENT MATERIAL AND PLACE IN APPROVE DISPOSAL CONTAINER.**

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**LARGE SPILL: CONTAIN WITH DIKE OF ABSORBENT MATERIAL, NEUTRALIZE, AND PLACE IN APPROVED DISPOSAL CONTAINER.**

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Waste Disposal Method

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**CONTACT STATE AND LOCAL AUTHORITIES FOR DETAILS**

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Precautions to Be Taken in Handling and Storing

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**STORE IN A COOL, DRY AREA AWAY FROM ALKALIS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.**

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Other Precautions

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**KEEP OUT OF REACH OF CHILDREN.**

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**SECTION VII - CONTROL MEASURES**

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Respiratory Protection (Specify Type)

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**NONE REQUIRED IF GOOD VENTILATION IS AVAILABLE**

<b>Ventilation</b>	Local Exhaust	Special
	IF AVAILABLE	NONE
	Mechanical (General)	Other
	IF AVAILABLE	NONE

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Protective Gloves

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**RUBBER OR PLASTIC**

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Eye Protection

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**GOGGLES, SAFETY GLASSES, OR FACE SHIELD**

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Other Protective Clothing or Equipment

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**RUBBER APRON AND BOOTS**

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Work/Hygienic Practices

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**USE CARE AND COMMON SENSE**