

MATERIAL SAFETY DATA SHEET

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MSDS NO: 6736  
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1. PRODUCT NAME & HAZARD SUMMARY

**6736 PROTEEN** PROTEIN STAIN REMOVER  
 PRIMARY USE: SPOT REMOVAL

NFPA HAZARD HEALTH	RATING U UNKNOWN	SARA TITLE III, SECTION 313 NOT APPLICABLE ( )	CANADA (WHMIS) D2: CAUSING OTHER TOXIC EFFECTS
FIRE	0 MINIMAL	APPLICABLE (X) Ammonium Hydroxide (R.Q. = 1000 lbs.)	
REACTIVITY	0 MINIMAL	VOC content: 0 grams per liter	

2. HAZARDOUS COMPONENTS

	% OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
AQUA AMMONIA C.A.S. #1336-21-6	≤ 4.6	PEL 50* TWA 25* STEL 35*	N.AV.

\* for ammonia gas

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: LIGHT BLUE LIQUID	EVAPORATION RATE (ETHER = 1): EQUAL TO WATER
ODOR: AMMONIA	VAPOR DENSITY (AIR =1): N.AP.
BOILING PT.: 212°F (100°C)	VAPOR PRESSURE (MM): N.AV.
FREEZING PT.: 32°F (0°C)	SOLUBILITY IN WATER: COMPLETE
pH: 10.0	SPECIFIC GRAVITY (WATER = 1): 0.99
% VOLATILE: 98%	CO-EFFICIENT OF WATER/OIL DISTRIBUTION: N.AV.
ODOR THRESHOLD (PPM): N.AV.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: None  
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: N.AP.  
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Dry chemical, carbon dioxide, water spray or foam. For large fires, use water spray, fog or alcohol foam.  
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus.  
 UNUSUAL FIRE AND EXPLOSION: None  
 HAZARDOUS COMBUSTION PRODUCTS: N.AP.  
 CONDITIONS OF FLAMMABILITY: N.AP.  
 AUTO IGNITION TEMP. (°C): N.AP.  
 EXPLOSION DATA: - SENSITIVITY TO MECHANICAL IMPACT: N.AP.  
 SENSITIVITY TO STATIC DISCHARGE: N.AP.

5. REACTIVITY HAZARD DATA

STABILITY (CONDITIONS TO AVOID): Stable  
 INCOMPATIBILITY (MATERIALS TO AVOID): Acrolein, Acrylic Acid, strong oxidizers  
 HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release ammonia gas  
 HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): Will not occur

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:                    INHALATION\_\_X\_\_                    SKIN\_\_\_\_                    INGESTION\_\_\_\_

WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Primary Irritation Score = 1.5 (Category IV, 40 CFR 156.10) per dermal administration (rabbit), this product is only a slight irritant.

SIGNS & SYMPTOMS OF EXPOSURE: (ACUTE & CHRONIC)

EYES: Liquid and vapors may cause irritation with redness, tearing and blurred vision, repeated or prolonged contact may cause conjunctivitis.  
 SKIN: Prolonged contact may cause irritation and/or dermatitis.  
 INGESTION: May cause gastrointestinal irritation, nausea, vomiting. Respiratory irritation and pulmonary edema may occur. Ingestion of large quantities may be fatal.

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**6. HEALTH HAZARD DATA (cont'd)**

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INHALATION: May cause nose and throat irritation, chest pain and pulmonary edema.

IRRITANCY OF PRODUCT: Irritant.

SENSITIZATION TO PRODUCT: N.AV.

CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY: N.AV.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: N.AV.

**EMERGENCY AND FIRST AID PROCEDURES:**

EYES: Remove contact lenses, if worn. Flush with water for at least 15 min. and call a physician.

SKIN: Remove contaminated clothing; wash affected area with soap and water.

INHALATION: Remove to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult give oxygen, if available. Get medical help.

INGESTION: Treat symptomatically, get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Give water or milk to drink immediately and induce vomiting. Irrigate mouth with 1% acid or vinegar.

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**7. SPILL AND LEAK PROCEDURES**

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LARGE SPILLS: Contain and transfer to drums for use or disposal.

SMALL SPILLS: Flush with water.

WASTE DISPOSAL METHOD: May be considered a hazardous waste, dispose of according to all applicable regulations. Incineration in permitted facilities or disposal in permitted land fills are preferred disposal methods.

HANDLING PROCEDURES & EQUIPMENT: Wear protective gloves, eye protection and respirator.

STORAGE REQUIREMENTS: Keep away from heat, store away from acids and oxidizers.

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**8. SPECIAL PROTECTION, PREVENTATIVE MEASURES/IN CASE OF LARGE SPILL OR FIRE**

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ENGINEERING CONTROLS/VENTILATION: Local exhaust system sufficient to maintain exposure below TWA values.

RESPIRATOR: THE FOLLOWING RESPIRATORS ARE RECOMMENDED & RANKED IN ORDER FROM MIN. TO MAX. PROTECTION:

CHEMICAL CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE WITH A FULL FACE PIECE.

GAS MASK WITH ORGANIC VAPOR CANISTER WITH A FULL FACE PIECE.

TYPE "C" SUPPLIED-AIR RESPIRATOR WITH FULL FACE PIECE.

SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE-DEMAND.

PERSONAL PROTECTIVE EQUIPMENT: Wear chemical tight goggles when handling product.

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**9. TRANSPORTATION DATA**

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DOT HAZARD CLASSIFICATION 49 CFR172.101: None, not regulated

DOT LABEL: None

U.N./IATA: Not regulated

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**10. STATE RIGHT TO KNOW INFORMATION**

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WATER-C.A.S. #7732-18-5, AQUA AMMONIA-C.A.S. #1336-21-6, SODIUM LAURYL SULFATE-C.A.S. #151-21-3,  
COCONUT DIETHANOL AMIDE-C.A.S. #68603-42-9

**ABBREVIATIONS:**

OSHA = Occupational Safety & Health Administration

TWA = Time Weighted Average for 8 Hours

Mg/M<sup>3</sup> = Milligrams per Cubic Meter of Air

NFPA = National Fire Protection Agency

(C) = Ceiling, Limit for Exposure

DOT = Department of Transportation

MG/KG = Milligrams per Kilogram (1,000 grams)

WHMIS = Workplace Hazardous Materials Information System - Canada

ACGIH = American Conference of Government Industrial Hygienists

R.Q. = Amount of spill that must be reported to EPA

SARA Title III, Sec. 313 = Superfund Amendments and Reauthorization Act

C.A.S. = Chemical Abstract Service Number

LD 50 = Lethal Dose for 50% Test Animals

PEL = Permissible Exposure Level

STEL = Short Term Exposure Level (15 min)

ppm = part(s) per million

SKN = Skin Effects

IATA = International Air Transport Association

N.AV. = Not Available

N.AP. = Not Applicable

U.N. = United Nations

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