

MATERIAL SAFETY DATA SHEET

MANUFACTURERS NAME: P & S Sales Inc
 ADDRESS: 20943 Cabot Blvd. Hayward, CA 94545
 BUSINESS PHONE: (510) 732-2628

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I. GENERAL

TRADE NAME:	Bug Wash	EMERGENCY TELEPHONE NUMBER
OTHER NAMES:		1-(800) 255-3924
CHEMICAL FAMILY:	Non-ionic surfactant	DOT Hazardous Materials Proper Shipping Name
GENERIC NAME:	Ammonia cleaner	UN/NA ID No.: NA2672
		DOT Hazard Class: Corrosive Liquid NOS

II. HAZARDOUS COMPONENTS (this may not be a complete list of components)

Component Name	CAS #	Concentration	Exposure Limits in Air TLV (ACGIH)	TWA (OSHA)	STEL (OSHA)
EDTA Disodium Salt	139-33-3		none established		
Ethanol 2-amino-	141-43-5	1%		3 ppm	6 ppm
Soy dimethyl ethyl ammonium Ethosulfate	68308-67-8		none established		

#Listed by: 1=IARC 2=EPA 3=GISO 4=CAL/OSHA Compositions are typical values, not specifications.

III. SUMMARY OF HAZARDS

ACUTE HEALTH- Causes burning to eyes, skin and upper respiratory tract on acute contact. Emits irritating ammonia gas fumes.

CHRONIC HEALTH-NFPA Rating: Health: 3 Fire: 0 Reactivity: 0
 (4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant)

FIRE AND EXPLOSION

Flash Point (Method)	Autoignition Temperature	Flammable Limits (%Volume in air)
N/A	1204°F	Lower- 16.00% Upper- 25.00%

UNUSUAL FIRE AND EXPLOSION HAZARD When heated, material can give off ammonia gas, a strong irritant to eye, respiratory tract, and moist skin. Closed containers exposed to extreme heat may develop pressure.

EXTINGUISHING MEDIA	Foam	Water Spray	Alcohol Foam
	CO2	Dry Chemical	Water Fog
			X

SPECIAL FIREFIGHTING PROCEDURES Not considered a primary fire hazard, but care should be taken to avoid exposure to liquid product involved in fire. Wear splash-proof, gas tight goggles, respiratory protection, rubber gloves and clothing to avoid contact as needed. Cool fire exposed container.

V. HEALTH HAZARDS

INHALATION Emits irritating ammonia gas fumes. Irritating to the mucous membranes of the respiratory tract. Can result in coughing and lung congestion.

EYE CONTACT Contact with eyes can rapidly cause damage to the eye.

SKIN ABSORPTION

SKIN IRRITATION May irritate or injure skin depending on length of contact or individual skin sensitivity.

INGESTION Causes burning to mucous membranes and deeper tissues which contact is made.

SUMMARY OF ACCUTE HAZARDS AND SPECIAL HEALTH EFFECTS Has a toxic and burning effect to tissues. Seek medical help under all over exposure conditions.

VI. PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES

RESPIRATORY Keep mist levels below TLV. Use in well ventilated area. Use self-contained respirator with full facepiece for concentrations above 300 ppm.

EYE Splash proof safety face mask should be used. Contact lenses should not be worn while working with chemicals.

SKIN Neoprene gloves, boots and apron should be worn to prevent contact.

ENGINEERING CONTROLS

OTHER HYGIENIC AND WORK PRACTICES Eye bath and safety showers should be available to employees.

Bug Wash

VII. EMERGENCY AND FIRST AID

INHALATION Move exposed person to fresh air. Keep warm and at rest. If breathing stops give artificial respiration. If unconscious, give oxygen. Get medical attention as soon as possible.

EYE CONTACT Wash eyes with large amounts of water for 15 min., lifting upper and lower lids occasionally. Get medical attention as soon as possible.

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SKIN	Wash skin with large quantities of water on contact. If burning occurs consult a physician.		
CONTACT	Oils or ointments should not be used unless directed by a physician.		
INGESTION	Give large quantities of milk or water to dilute the chemical. Following this, dilute vinegar or fruit juice. Vomiting may occur spontaneously but should not be induced. Note: Never give anything by mouth to an unconscious person.		
SUSPECTED CANCER AGENT			
AGGRAVATED CONDITIONS			
VIII SPILL AND DISPOSAL			
PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED	Cleanup personnel must wear proper protective equipment. Reclaim into closed containers for possible normal use or disposal. Can be flushed with water if properly contained for collection and disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. Neutralize with dilute vinegar or other dilute acid.		
WASTE DISPOSAL METHODS	Recovered liquids may be sent to a licensed reclaimer or disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.		
X PHYSICAL AND CHEMICAL DATA			
Boiling Point	Viscosity Units, Temp. (Method)		Percent VOC
Ammonia vapors released on warming			6%
Freezing Point	Vapor Pressure (mmHg @15.5°C)	420 mmHg	Evaporation rate (Water = 1) 2.00
Specific Gravity (HOH=1)	Vapor Density (Air=1 @ 100°F)		Stable X Unstable
Solubility in Water (g/100g water @20°C)	pH-conc. 13.5 pH -dilute	Dry ammonia = 0.6	Hazardous Polymerization Will not occur
Other Physical and Chemical Properties			Chemical Reactivity Stable
Appearance and Odor	Clear liquid with a pungent ammonia odor.		
Materials to Avoid	Copper, tin, zinc, aluminum, and their alloys with galvanized surfaces.		
Conditions to Avoid	Excess heat, keep container closed when not in use.		
Hazardous Decomposition Products	Ammonia vapor in the container head space.		
XI ADDITIONAL PRECAUTIONS			
HANDLING, STORAGE AND DECONTAMINATION PROCEDURES			
GENERAL COMMENTS			
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