



5-68637

 <p>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.</p>			
IDENTITY (As Used on Label and List) I N HCl		<small>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</small>	
Section I Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14576 Rothgeb Drive Rockville, MD 20850		Emergency Telephone Number (301) 251-5990 Telephone Number for information (301) 251-5990 Date Prepared 09/15/97 Signature of Preparer (optional)	
Section II - Hazardous Ingredients/Identify Information Hazardous Components (Specific Chemical Identity, Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (Optional) I M HCl CAS# 7647-01-0			
Section III - Physical/Chemical Characteristics			
Boiling Point	384° F	Specific Gravity (H ₂ O = 1)	1.2
Vapor Pressure (mm Hg.)	No data	Melting Point	No data
Vapor Density (AIR = 1)	1.3	Evaporation Rate (Butyl Acetate = 1)	No data
Solubility in Water	Water soluble		
Appearance and Odor	Colorless		
Section IV - Physical/Chemical Characteristics N.D. = No data Flash Point (Method Used) No data Flammable Limits LEL N.D. UEL N.D. Extinguishing Media Water spray, carbon dioxide, dry chemical powder, or appropriate foam Special Fire Fighting Procedures Wear SCBA and protective clothing to prevent contact with skin and eyes Unusual Fire and Explosion Hazards Emits toxic fumes under fire conditions			

Section V - Reactivity Data			
Stability	Unstable	Conditions to Avoid	
	Stable	X	None
Incompatibility	Acetic Anhydride-alc. Hydrogen Cyanide, AL, Bases, Bronze, CA HCl		
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur	Conditions to Avoid	
	Will Not Occur		
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic) Fumes cause irritation of throat, coughing/choking. Skin contact is corrosive.			
Carcinogenicity:	NTP? No data	IARC Monographs? No data	OSHA Regulation? No data
Signs and Symptoms of Exposure Skin irritation, inflammation, ulceration			
Medical Conditions Generally Aggravated by Exposure No data available			
Emergency First Aid Procedures Wash with large amounts of water			
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in case Material is Released for Spilled Wear protective equipment			
Waste Disposal Method Observe all Government regulations			
Precautions to be Taken in Handling and Storing Store away from incompatibles			
Other Precautions Avoid contact			
Section VIII - Control Measures			
Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator			
Ventilation	Local Exhaust Yes	Special No	
	Mechanical (General) No	Other	None
Protective Gloves	Chemical resistant	Eye Protection	Safety goggles
Other Protective Clothing or Equipment Lab coat			
Work/Hygiene Practices Avoid contact - wash thoroughly after handling			

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IDENTITY (As Used on Label and List) Sodium Hydroxide		<small>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</small>	
Section I Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14576 Rothgeb Drive Rockville, MD 20850		Emergency Telephone Number (301) 251-5990 Telephone Number for information (301) 251-5990 Date Prepared 11/4/98 Signature of Preparer (optional)	
Section II - Hazardous Ingredients/Identify Information Hazardous Components (Specific Chemical Identity, Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (Optional) Sodium Hydroxide 2mg/m3 2mg/m3 No data CAS # 1310-73-2			
Section III - Physical/Chemical Characteristics			
Boiling Point	1390°C	Specific Gravity (H ₂ O = 1)	2.13
Vapor Pressure (mm Hg.)	20°C	Melting Point	318°C
Vapor Density (AIR = 1)	NO data	Evaporation Rate (Butyl Acetate = 1)	NO data
Solubility in Water	100% appreciable		
Appearance and Odor	White pellets, odorless		
Section IV - Physical/Chemical Characteristics Flash Point (Method Used) NA Flammable Limits LEL NA UEL NA Extinguishing Media Use extinguishing media appropriate for surrounding fire Special Fire Fighting Procedures Wear protective equipment and self-contained breathing apparatus. Flood material with water Unusual Fire and Explosion Hazards Contact with moisture or water generate sufficient heat to ignite other materials. React with metals to produce hydrogen gas which can form explosive mixture with air.			

Section V - Reactivity Data			
Stability	Unstable	Conditions to Avoid	
	Stable	X	Moisture
Incompatibility	Water, strong acids, metals, combustible materials, organic materials Zinc aluminum peroxide, halogenated hydrocarbons		
Hazardous Decomposition or Byproducts None identified			
Hazardous Polymerization	May Occur	Conditions to Avoid	
	Will Not Occur	X	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic) None identified			
Carcinogenicity:	NTP? No data	IARC Monographs? No data	OSHA Regulation? No data
Signs and Symptoms of Exposure Ingestion: Severe burns to mouth, throat, and stomach, nausea & vomiting Inhalation: Irritation Skin/eye contact: severe irritation or burns			
Medical Conditions Generally Aggravated by Exposure None identified			
Emergency First Aid Procedures Call physician. Ingestion: Do not induce vomiting. Give water followed by vinegar, juice or egg white Inhalation: Move to fresh air. Skin/eye contact: flush with water			
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in case Material is Released for Spilled Dispose of properly Wear SCBA and protective clothing. Carefully place material into clean, dry container and cover.			
Waste Disposal Method Follow all federal, state, and local laws.			
Precautions to be Taken in Handling and Storing Keep container tightly closed. Store in corrosion-proof area. Store in a dry area. Isolate from incompatible materials.			
Other Precautions None			
Section VIII - Control Measures			
Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator			
Ventilation	Local Exhaust Yes	Special No	
	Mechanical (General) Yes	Other	None
Protective Gloves	Neoprene gloves	Eye Protection	Safety goggles
Other Protective Clothing or Equipment Uniform, apron			
Work/Hygiene Practices Avoid contact			