

 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.											
IDENTITY (As Used on Label and List) Hydrogen Peroxide, Stabilized											
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.											
Section I											
Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850	Emergency Telephone Number (301) 251-5990 Telephone Number for information (301) 251-5990 Date Prepared 09-17-2002 Signature of Preparer (optional)										
Section II - Hazardous Ingredients/Identify Information											
<table border="1"> <thead> <tr> <th>Hazardous Components [Specific Chemical Identity; Common Name(s)]</th> <th>OSHA PEL</th> <th>ACGIH TLV</th> <th>Other Limits Recommended</th> <th>% (Optional)</th> </tr> </thead> <tbody> <tr> <td>Hydrogen peroxide, H₂O₂ CAS # 7722-84-1</td> <td>No data</td> <td></td> <td></td> <td>1.2%</td> </tr> </tbody> </table>		Hazardous Components [Specific Chemical Identity; Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)	Hydrogen peroxide, H ₂ O ₂ CAS # 7722-84-1	No data			1.2%
Hazardous Components [Specific Chemical Identity; Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)							
Hydrogen peroxide, H ₂ O ₂ CAS # 7722-84-1	No data			1.2%							
Section III - Physical/Chemical Characteristics											
Boiling Point	No data	Specific Gravity (H ₂ O = 1)	1.110								
Vapor Pressure (mm Hg.) at 30°C	22.3	Melting Point	No data								
Vapor Density (AIR = 1)	1	Evaporation Rate (Butyl Acetate = 1)	No data								
Solubility in Water	Soluble										
Appearance and Odor	Colorless liquid, no odor										
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	Waterspray										
Special Fire Fighting Procedures	Wear SCBA and protective clothing to prevent contact with skin and eyes.										
Unusual Fire and Explosion Hazards	Strong oxidizer, contact with other material may cause fire. Container explosion may occur under fire conditions.										

Section V - Reactivity Data			
Stability	Unstable	X	Conditions to Avoid
	Stable		Excessive heat
Incompatibility	Strong acids, aluminum, steel		
Hazardous Decomposition or Byproducts	Toxic oxides of phosphorus		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Yes	Skin? Yes Ingestion? Yes
Health Hazards (Acute and Chronic)	Acute: Irritates mucous membranes upperrespiratory tract, eyes, skin Chronic: May have mutagenic affect		
Carcinogenicity:	No data	NTP?	IARC Monographs? OSHA Regulation?
Signs and Symptoms of Exposure	Inhalation: burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea. Irritation.		
Medical Conditions Generally Aggravated by Exposure	No data		
Emergency First Aid Procedures	Ingestion: Wash mouth out with water. Contact physician Eyes: Flush with water Inhalation: Move to fresh air Skin: Flush with water		
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in case Material is Released for Spilled			
Mop up with absorbent material and dispose of properly			
Waste Disposal Method	Cautiously acidify to pH2 with Sulfuric acid. Add a 50% excess of aqueous sodium bisulfate with stirring (heat generated). If no heat is evident, cautiously add until heat is liberated.		
Precautions to be Taken in Handling and Storing			
Observe federal, state, and local laws			
Other Precautions	Store away from incompatibilities		
Section VIII - Control Measures			
Respiratory Protection (Specify Type) NIOSH/MSHA approved			
Ventilation	Local Exhaust	No	Special No
	Mechanical (General)	No	Other Chemical fume hood
Protective Gloves	Rubber		Eye Protection Safety goggles
Other Protective Clothing or Equipment	Rubber boots		
Work/Hygienic Practices	Avoid inhalation. Keep away from incompatibilities and combustible material.		

 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.											
IDENTITY (As Used on Label and List) ABTS Substrate											
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Section I											
Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850	Emergency Telephone Number (301) 251-5990 Telephone Number for information (301) 251-5990 Date Prepared 03/14/00 Signature of Preparer (optional)										
Section II - Hazardous Ingredients/Identify Information											
<table border="1"> <thead> <tr> <th>Hazardous Components [Specific Chemical Identity; Common Name(s)]</th> <th>OSHA PEL</th> <th>ACGIH TLV</th> <th>Other Limits Recommended</th> <th>% (Optional)</th> </tr> </thead> <tbody> <tr> <td>2,2'-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) Diammonium salt CAS# 30931-67-0</td> <td></td> <td></td> <td></td> <td>-----No data-----</td> </tr> </tbody> </table>		Hazardous Components [Specific Chemical Identity; Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)	2,2'-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) Diammonium salt CAS# 30931-67-0				-----No data-----
Hazardous Components [Specific Chemical Identity; Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)							
2,2'-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) Diammonium salt CAS# 30931-67-0				-----No data-----							
Section III - Physical/Chemical Characteristics											
Boiling Point	No data	Specific Gravity (H ₂ O = 1)	No data								
Vapor Pressure (mm Hg.)	No data	Melting Point	>300°C								
Vapor Density (AIR = 1)	No data	Evaporation Rate (Butyl Acetate = 1)	No data								
Solubility in Water	Soluble										
Appearance and Odor	colorless, odorless liquid										
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 powder or appropriate foam										
Special Fire Fighting Procedures	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.										
Unusual Fire and Explosion Hazards	No data										

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid
	Stable		Incompatibles
Incompatibility	Strong oxidizing agents, strong acids		
Hazardous Decomposition or Byproducts	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides sulfure oxides.		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur		No Data
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Yes	Skin? Yes Ingestion? Yes
Health Hazards (Acute and Chronic)	Irritant		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulation?
	-----	-----No data-----	-----
Signs and Symptoms of Exposure	Eye, skin and respiratory system irritation		
Medical Conditions Generally Aggravated by Exposure	No data		
Emergency First Aid Procedures	Eyes/Skin: Flush with copious amounts if water. If swallowed, wash out mouth with water, call a physician.		
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in case Material is Released for Spilled			
Wear suitable protective clothing and mop up			
Waste Disposal Method	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe federal, state, and local laws.		
Precautions to be Taken in Handling and Storing			
Avoid contact. Wear self-contained breathing apparatus, rubber boots and rubber gloves.			
Other Precautions	None		
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
Ventilation	Local Exhaust	No	Special None
	Mechanical (General)	Yes	Other None
Protective Gloves	Chemical resistant		Eye Protection Chemical safety goggles
Other Protective Clothing or Equipment	Lab coat, NIOSH/MSHA approved respirator		
Work/Hygienic Practices	Avoid contact		

**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.

IDENTITY (As Used on Label and List) Peroxide Co-substrate
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Section I
 Manufacturer's Name: EDVOTEK, Inc.
 Address (Number, Street, City, State, Zip Code): 14676 Rothgeb Drive, Rockville, MD 20850
 Emergency Telephone Number: (301) 251-5990
 Telephone Number for information: (301) 251-5990
 Date Prepared: 09-18-2002
 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)
 5-aminosalicylic acid -----No data-----
 CAS# 89-57-6

Section III - Physical/Chemical Characteristics

Boiling Point	No data	Specific Gravity (H ₂ O = 1)	No data
Vapor Pressure (mm Hg.)	No data	Melting Point	280°C
Vapor Density (AIR = 1)	No data	Evaporation Rate (Butyl Acetate = 1)	No data
Solubility in Water	Soluble		
Appearance and Odor	Light tan-gray powder with clumps		

Section IV - Physical/Chemical Characteristics N.D. = No data

Flash Point (Method Used)	No data	Flammable Limits	LEL	UEL
			N.D.	N.D.

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam
 Special Fire Fighting Procedures: Wear protective clothing and SCBA to prevent contact with skin & eyes
 Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	Incompatibles
Incompatibility	Acids, acid chlorides, acid anhydrides, chloroformates, strong oxidizing agents	
Hazardous Decomposition or Byproducts	Nitrogen oxides, carbon monoxide, and carbon dioxide	
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): Irritating to mucous membranes and upper respiratory tract

Carcinogenicity: NTP? IARC Monographs? OSHA Regulation?
 -----No data-----

Signs and Symptoms of Exposure: Eye and skin irritation

Medical Conditions Generally Aggravated by Exposure: No data

Emergency First Aid Procedures: Ingestion: Rinse mouth with water
 Eyes/Skin: Flush with water Inhalation: Move to fresh air

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in case Material is Released or Spilled: Wear suitable protective clothing. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area.

Waste Disposal Method: Mix with combustible solvent and burn in chemical incinerator with afterburner and scrubber. Observe federal, state, and local laws.

Precautions to be Taken in Handling and Storing: Avoid contact or raising dust.

Other Precautions: None

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Ventilation	Local Exhaust	No	Special	None
	Mechanical (General)	Yes	Other	None

Protective Gloves: Chemical resistant Eye Protection: Chemical safety goggles

Other Protective Clothing or Equipment: Lab coat

Work/Hygienic Practices: Avoid contact