CE

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MATERIAL SAFETY DATA SHEET

Adenovirus IgM

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Supplier: Diagnostic Automation Inc.
21250 Califa Street, Suite 102 and 116, Woodland Hills
CA 91367 USA

Emergency Telephone number: Please contact the local hospitals.

Product Name: Adenovirus IgM
Catalog No: 6102-8

Standard Diluent

Chemical Characterization / Information on Ingredients

Character	aqueous, protein-containing mixture preserved with 0.01 % methylisothiazolone and 0.01 % bromonitrodioxane
CAS-No.	not determined

Hazards Identification

Warnings	Though complete toxicity information on this standard diluent is not available, none of its components are known to be toxic or hazardous at use concentrations. The buffer contains the mercury-free preservatives methylisothiazolone (0.01 %) and bromonitrodioxane (0.01 %), which can

produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to the material safety data sheets available from the manufacturer (Boehringer Mannheim Corporation).

2.3. First Aid Measures

Eye Contact	Promptly wash eyes with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (approximately 15 minutes). Seek medical advice.
Skin Contact	Wash thoroughly with water and soap.
Ingestion	Wash out mouth with water provided person is conscious. Drink one cup of water or milk to dilute in the stomach. Seek medical advice.
Inhalation	No special first aid measures necessary; inhalation or aspiration unlikely.

Fire-Fighting Measures

Flash point	Non-flammable
Extinguishing Media	No restriction
Special Fire Fighting Procedure	No special procedures are required. As with any fire, wear full protective clothing and self-contained breathing apparatus.
Unusual Fire Fighting Procedure	None

Accidental Release Measures

Personal Protection	Protective glasses, rubber gloves and special protective clothing.
Steps after Spillage	Absorb spill with an absorbent cloth, then wash the area thoroughly with soap and water.
Waste Disposal Method	Observe all federal, state and local laws when considering waste disposal methods.

Handling and Storage

Handling	Wear protective clothing. Avoid contact with eyes, skin and clothes. Open and handle container carefully. Thoroughly washing after use is recommended.
Storage	Store between +2°C and +8°C.

Exposure Controls / Personal Protection

Personal Protection	Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended.

Physical and Chemical Properties

Physical State	Liquid	Flash Point	N/A
Color	Blue	Ignition Temperature	N/A
Odor	N/A	Explosion Limits	N/A
pH-Value	6.5 - 7.5	Vapor Pressure	N/A
Boiling Point	100°C	Solubility in Water	complete
Melting Point	N/A	Viscosity	N/A

Stability and Reactivity

Stability	Chemically stable
Incompatibilities	None known
Hazardous Polymerisation	Will not occur
Hazardous Decomposition Products	Toxic fumes and carbon monoxide, carbon dioxide, nitrogen oxides

Toxicological Information

N/A

Ecological Information

N/A

Sample Diluent

Chemical Characterization / Information on Ingredients

Character	Product contains 0.095% Sodium Azide (NaN_3).
CAS-No. of NaN_3	26628-22-8
EG-Index-No.	011-004-00-7
EINECS-No.	247-852-1
Classification	Toxic, Irritant

Hazards Identification

Warnings	Toxic if swallowed. Substance slightly hazardous to the water supply.

First Aid Measures

Eye Contact	Promptly wash eyes with water for at least 15 minutes. Seek medical advice.
Skin Contact	Wash area with soap and water.
Ingestion	Consult a physician or poison control centre.
Inhalation	N/A
Direction for Physician	Symptomatic treatment by a physician.

Fire-Fighting Measures

Extinguishing Media	No restriction.
Special Fire Fighting Procedure	N/A
Unusual Fire Fighting Procedure	N/A
Thermal Decomposition	Dangerous decomposition is not anticipated.

Accidental Release Measures

Personal Protection	Protective glasses, rubber gloves and special protective clothing.
Steps after Spillage	Absorb spill with an absorbent cloth, then wash the area thoroughly with soap and water.
Waste Disposal Method	Observe all federal, state and local laws when considering waste disposal methods.

Handling and Storage

Handling	Wear protective clothing. Avoid contact with eyes, skin and clothes. Open and handle container carefully. Thoroughly washing after use is recommended.
Storage	Store between +2°C and +8°C.

Exposure Controls / Personal Protection

Personal Protection	Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended.

Physical and Chemical Properties

Physical State	Liquid	Ignition Temperature	N/A
Color	blue	Explosion Limits	N/A
Odor	N/A	Vapor Pressure	N/A
pH-Value	N/A	Solubility in Water	Completely
Boiling Point	N/A	Viscosity	N/A
Melting Point	N/A		
Flash Point	N/A		

Stability and Reactivity

Hazardous Reactions	None known when used appropriately.
Hazardous Decomposition Products	Sodium azide may react with lead and copper plumbing. On disposal, flush with large amounts of water to minimize azide build-up.

Toxicological Information

LD_{50} Oral (human)	0.71 mg/kg	LD_{50} Skin (rabbit)	27 mg/kg
LD_{50}	Not known	LD_{50} Inhalation	Not known

Ecological Information

Water Hazard Class	1 (own specification)

Conjugate Diluent

Chemical Characterization / Information on Ingredients

Character	aqueous, protein-containing mixture preserved with 0.01 % methylisothiazolone and 0.01 % bromonitrodioxane and 10 mg/l.
CAS-No.	not determined

Hazards Identification

Warnings	Though complete toxicity information on this conjugate buffer is not available, none of its components are known to be toxic or hazardous at use concentrations. The buffer contains the mercury-free preservatives methylisothiazolone (0.01 %), bromonitrodioxane (0.01 %), which can produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to the material safety data sheets available from the manufacturer (Boehringer Mannheim Corporation and Rohm and Haas, respectively).

First Aid Measures

Eye Contact	Promptly wash eyes with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (approximately 15 minutes). Seek medical advice.
Skin Contact	Wash thoroughly with water and soap.
Ingestion	Wash out mouth with water provided person is conscious. Drink one cup of water or milk to dilute in the stomach. Seek medical advice.
Inhalation	No special first aid measures necessary; inhalation or aspiration unlikely.

Fire-Fighting Measures

Flash point	Non-flammable
Extinguishing Media	No restriction.
Special Fire Fighting Procedure	No special procedures are required. As with any fire, wear full protective clothing and self-contained breathing apparatus.
Unusual Fire Fighting Procedure	None

Accidental Release Measures

Personal Protection	Protective glasses, rubber gloves and special protective clothing.
Steps after Spillage	Absorb spill with an absorbent cloth, then wash the area thoroughly with soap and water.
Waste Disposal Method	Observe all federal, state and local laws when considering waste disposal methods.

Handling and Storage

Handling	Wear protective clothing. Avoid contact with eyes, skin and clothes. Open and handle container carefully. Thoroughly washing after use is recommended.
Storage	Store between +2°C and +8°C.

Exposure Controls / Personal Protection

Personal Protection	Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended.

Physical and Chemical Properties

Physical State	Liquid	Flash Point	N/A
Color	Red	Ignition Temperature	N/A
Odor	N/A	Explosion Limits	N/A
pH-Value	6.2 – 6.7	Vapor Pressure	N/A
Boiling Point	100°C	Solubility in Water	complete
Melting Point	N/A	Viscosity	N/A

Stability and Reactivity

Stability	Chemically stable
Incompatibilities	None known
Hazardous Polymerisation	Will not occur
Hazardous Decomposition Products	Toxic fumes and carbon monoxide, carbon dioxide, nitrogen oxides

Toxicological Information

N/A

Ecological Information

N/A

TMB (Substrate for HRP Conjugate)

Chemical Characterization / Information on Ingredients

Character	Product contains 0.05 % Tetramethyl Benzidine (TMB)
CAS-No	54827-17-7
Classification	Hazardous. Irritant

Hazards Identification

Warnings	Toxic if swallowed. Irritant, handle with care.

First Aid Measures

Eye Contact	Promptly wash eyes with water for at least 15 minutes. Seek medical advice.
Skin Contact	Flush skin with copious amounts of water.
Ingestion	Wash out mouth with water provided person is conscious. Seek medical advice.
Inhalation	N/A
Changing Clothes	In case of severe contamination.

Fire-Fighting Measures

Extinguishing Media	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Special Fire Fighting Procedure	N/A
Unusual Fire Fighting Procedure	Emits toxic fumes under fire conditions.
Thermal Decomposition	Dangerous decomposition is not anticipated.

Accidental Release Measures

Personal Protection	Protective glasses, gloves and clothing
Steps after Spillage	Remove spilled fluid onto an inert material. Wash area with soap solution.
Absorbent Material	No restriction
Waste Disposal Method	Consult a specialist for disposal of the spilled substance.

Handling and Storage

Handling	Wear protective clothing. Open and handle container carefully.
Storage	Store between +2°C and +8°C.
Other Precautions	N/A

Exposure Controls / Personal Protection

TLV	No
Personal Protection	Protective glasses, gloves and clothing.

Physical and Chemical Properties

Physical State	Liquid	Ignition Temperature	N/A
Color	Yellow	Explosion Limits	N/A
Odor, pH-Value	N/A	Vapor Pressure	N/A
Solubility in Water	Soluble	Boiling Point	> 100°C
Flash Point	N/A	Viscosity	N/A

Stability and Reactivity

Hazardous Reactions	N/A
Hazardous Decomposition Products	Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

Toxicological Information

LD_{50} Oral	Not known	LD_{50} Skin	Not known
LD_{50}	Not known	LD_{50} Inhalation	Not known

Ecological Information

Water Hazard Class	*1 (own specification)*

Stop-Solution (0.5 M Sulfuric Acid)

Chemical Characterization / Information on Ingredients

Character	Product contains 0.5 M Sulfuric Acid (H_2SO_4)
CAS-No of H_2SO_4	7664-93-9
EINECS-No.	213-639-5
Classification	Very caustic, toxic, possible carcinogen

Hazards Identification

Warnings	Very caustic, toxic, possible carcinogen after inhalation, irritant, handle with care.

First Aid Measures

Eye Contact	Promptly wash eyes with water for at least 15 minutes. Seek medical advice.
Skin Contact	Flush skin with copious amounts of water and soap.

Ingestion	Wash out mouth with water provided person is conscious. Seek medical advice.
Inhalation	Remove to fresh air. If breathing becomes difficult, seek medical advice.
Changing Clothes	In case of severe contamination.

Fire-Fighting Measures

Extinguishing Media	Do not use water. Use carbon dioxide, dry chemical powder or appropriate foam.
Special Fire Fighting Procedure	Wear self-containing breathing apparatus and special protective clothes.
Unusual Fire Fighting Procedure	Emits toxic fumes under fire conditions.
Thermal Decomposition	N/A

Accidental Release Measures

Personal Protection	Protective glasses, gloves and clothing.
Steps after Spillage	Remove spilled fluid onto an inert material. Ventilate area. Wash area with soap solution. Collect contaminated fluid and material in a special closable container.
Absorbent Material	No restriction
Waste Disposal Method	Consult a specialist for disposal of the spilled substance.

Handling and Storage

Handling	Wear protective clothing. Open and handle container carefully.
Storage	Store between +2°C and +8°C.
Other Precautions	N/A

Exposure Controls / Personal Protection

TLV	No
Personal Protection	Protective glasses, rubber gloves and acid-resitant clothing; breathing apparatus in severe cases: thoroughly washing after use is recommended.

Physical and Chemical Properties

Physical State	Liquid	Vapor Pressure	N/A
Color	Colourless	Boiling Point	> 100°C
Odor	N/A	Flash Point	N/A
pH-Value	1.0 - 3.0	Solubility in Water	Soluble

Stability and Reactivity

Hazardous Reactions	Incompatibility with bases, halogenides and metals.
Hazardous Decomposition Products	Sulfur oxides.

Toxicological Information

LD_{50} Oral	2140 mg/kg	LD_{50} Skin	Not known
LDL0	135 mg/kg	LD_{50} Inhalation (rat)	510 mg/m^3 (2h)

Ecological Information

Water Hazard Class	1 (own specification), neutralization

Disposal Considerations

Observe all Federal, State and Local laws concerning Health and Pollution.

Transport Information

N/A

Regulatory Information

N/A

Other Information

The information herein is believed to be correct as of the given data but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.

Date Adopted	2016-05-13
REF 6102-8	DA-Adenovirus IgM

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