



MATERIAL SAFETY DATA SHEET

Conforms to 93/112/EC and ISO 11014-1

Responsible Name: Diazyme Administration
Effective 08/06/08

SECTION 1: PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME:	CATALOG #
TBA (Colorimetric) Assay	DZ092A
Reagent R1	DZ092A-R1
Reagent R2	DZ092A-R2
Reagent R3	DZ092A-R3
Calibrator	DZ092A-S1
Control	DZ092A-C1

Supplier: **Diazyme Laboratories**
12889 Gregg Court
Poway, CA 92064, USA
858-455-4754

Manufacturer: **Diazyme Laboratories**
12889 Gregg Court
Poway, CA 92064, USA
858-455-4754

Authorized Representative: **MDSS GmbH**
Schiffgraben 41
30175 Hannover
Germany

In case of Emergency: Call Diazyme Laboratories (858-455-4754)

Intended Use: Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

SECTION 2: HAZARDOUS INGREDIENTS

Product	Ingredient	Amount	CAS #	EINECS #	Symbols	R-Phrase	S-Phrase
Reagent R1	None	N/A	N/A	N/A	N/A	N/A	N/A
Reagent R2	None	N/A	N/A	N/A	N/A	N/A	N/A
Reagent R3	None	N/A	N/A	N/A	N/A	N/A	N/A
Calibrator	Serum Albumin	3%	9048-46-8	305-179-1	None Listed	None Listed	S 24/25
	Sodium Chloride	1.17%	7647-14-5	231-598-3	None Listed	None Listed	S 24/25
Control	Serum Albumin	3%	9048-46-8	305-179-1	None Listed	None Listed	S 24/25
	Sodium Chloride	1.17%	7647-14-5	231-598-3	None Listed	None Listed	S 24/25

NOTE: Physical and health hazard information on reagent mixtures has not been determined. Any physical and health information noted is based on 1) evaluation of data for the pure ingredients, and 2) concentration of ingredients as packaged.

SECTION 3: HAZARD IDENTIFICATION

SERUM ALBUMIN:

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: Dust may cause mechanical irritation.

Skin: May cause skin irritation. Low hazard for usual industrial handling.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic: No information found.

SODIUM CHLORIDE:

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

		Serum Albumin	Sodium Chloride
HMIS RATING	HEALTH:	1	0
	FLAMMABILITY:	0	0
	REACTIVITY:	0	0
NFPA RATING	HEALTH:	0	0
	FLAMMABILITY:	0	0
	REACTIVITY:	0	0
HAZARD SYMBOLS:		N/A	N/A
R-Phrase:		None Listed	None Listed
S-Phrase:		None Listed	None Listed

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Effective 08/06/08**SECTION 4: FIRST AID MEASURES****SERUM ALBUMIN:**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: None.

SODIUM CHLORIDE:

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: None.

SECTION 5: FIRE FIGHTING MEASURES**SERUM ALBUMIN:**

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

SODIUM CHLORIDE:

General Information: Water runoff can cause environmental damage. Dike and collect water used to fight fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Substance is noncombustible.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

SECTION 6: ACCIDENTAL RELEASE MEASURES**SERUM ALBUMIN:**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

SODIUM CHLORIDE:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7: HANDLING AND STORAGE**SERUM ALBUMIN:**

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep from contact with oxidizing materials.

SODIUM CHLORIDE:

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

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Responsible Name: Diazyme Administration
Effective 08/06/08**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****SERUM ALBUMIN:****Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eye-wash facility and a safety shower.

Exposure Limits

CAS# 94349-60-7:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SODIUM CHLORIDE:**Engineering Controls:**

Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

CAS# 7647-14-5:

Personal Protective Equipment

Eyes: Wear safety glasses with side shields.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**SERUM ALBUMIN:**

Physical State: Powder
Color: slightly yellow - beige
Odor: weak odor
pH: 7.0 ±0.2
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Not available
Specific Gravity/Density: Not available
Molecular Formula: Not available
Molecular Weight: Not available

SODIUM CHLORIDE:

Physical State: Solid
Color: colorless or white
Odor: odorless
pH: Aq soln is neutral
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: 1461 deg C (2,661.80°F)
Freezing/Melting Point: 801 deg C (1,473.80°F)
Autoignition Temperature: Not available.
Flash Point: Not applicable.
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Freely Soluble
Specific Gravity/Density: 2.165
Molecular Formula: NaCl
Molecular Weight: 58.43

SECTION 10: STABILITY AND REACTIVITY**SERUM ALBUMIN:**

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Not available
Hazardous Polymerization: Will not occur.

SODIUM CHLORIDE:

Chemical Stability: Stable. Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: High temperatures, exposure to moist air or water.
Incompatibilities with Other Materials: Not available
Hazardous Decomposition Products: Toxic fumes of sodium oxide.
Hazardous Polymerization: Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION**SERUM ALBUMIN:**

RTECS#: CAS# 94349-60-7: None listed
LD50/LC50: RTECS: Not available.
Carcinogenicity: ALBUMINE BOVINE / FRACTION V (PH:7.0) - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

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RTECS#: CAS# 7647-14-5: VZ4725000
LD50/LC50: RTECS:
CAS# 7647-14-5: Draize test, rabbit, eye: 100 mg Mild;
Draize test, rabbit, eye: 100 mg/24H Moderate;
Draize test, rabbit, eye: 10 mg Moderate;
Draize test, rabbit, skin: 50 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = >42 gm/m³/1H;
Oral, mouse: LD50 = 4 gm/kg;
Oral, rat: LD50 = 3000 mg/kg;
Skin, rabbit: LD50 = >10 gm/kg

Carcinogenicity: Sodium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

SECTION 12: ECOLOGICAL INFORMATION**SERUM ALBUMIN & SODIUM CHLORIDE:**

None available

SECTION 13: DISPOSAL CONSIDERATIONS**SERUM ALBUMIN:**

Dispose of in a manner consistent with federal, state, and local regulations.

SODIUM CHLORIDE:

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14: TRANSPORTATION INFORMATION**SERUM ALBUMIN & SODIUM CHLORIDE:**

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated.	Not regulated.	Not regulated.
Hazard Class:			
UN Number:			
Packing Group:			

SECTION 15: REGULATORY INFORMATION**SERUM ALBUMIN:****European/International Regulations**

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)
CAS# 94349-60-7: Not available
Canada

US Federal

TSCA
CAS# 94349-60-7 is not listed on the TSCA Inventory. It is for research and development use only.

SODIUM CHLORIDE:**European/International Regulations**

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)
CAS# 7647-14-5: 0
Canada

CAS# 7647-14-5 is listed on Canada's DSL List

US Federal

TSCA
CAS# 7647-14-5 is listed on the TSCA Inventory.

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Effective 08/06/08

SECTION 16: OTHER INFORMATION

PREPARED BY: Diazyme Administration
PHONE NO: 858-455-4754
DATE PREPARED: 3 October 2006

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct Diazyme makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and pollution.