MATERIAL SAFETY DATA SHEET

OSHA Hazard Communication (Rule 29 CFR 1910 1200)

Revised June 9, 2010

SECTION I: MANUFACTURER AND PRODUCT

Manufacturer:

Life Sciences Advanced Technologies, Inc.
2900 72nd Street N.
St. Petersburg, FL 33710
Tel: (727) 345-9371
Fax: (727) 347-2957
Email: info@lifesci.com

Product name:

AMV Reverse Transcriptase, E.C. 2.7.7.7
RNA dependent DNA polymerase
Cat Nos. AMV XXX, RTHSA35, and BRT-XXX

Associated Components (approx.)

Glycerol	50%
Potassium Phosphate	3%
Triton X-100	0.2
Dithiothreitol	0.03%

SECTION II: HAZARDOUS INGREDIENTS

Exposure limit for the product mixture as a whole: No information available

Hazardous Chemical Name:

Reverse Transcriptase	No toxicity data available
Glycerol	LD_{50}(oral) in mice 26g/kg
	LK_{50}(oral) in rat 12.6g/kg
Dithiothreitol	LD_{50}(ipr) 169mg/kg
Potassium Phosphate	No Hazard or Toxicity known
Triton X-100	LD_{50}(oral) in rat 1.8 g/kg

SECTION III: PHYSICAL DATA

Boiling Point ° C	n.a.	Vapor Pressure mm Hg	n.a.
Vapor Density, Air = 1	n.a.	Solubility in Water	Soluble
Specific Gravity, Water = 1	1.129	Evaporation Rate	n.a.
Appearance and odor	Clear solution in 50% glycerol		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)	n.a.
Extinguishing Media	CO_2, dry powder, alcohol or polyfoam
Special Fire Fighting Procedure	Wear self-contained breathing apparatus and protective clothing
Flammable Limits Le 1% Ue 1%	n.a.

MATERIAL SAFETY DATA SHEET

OSHA Hazard Communication (Rule 29 CFR 1910 1200)

SECTION V: HEALTH HAZARD DATA

Health hazard of the chemical mixture as a whole: No information available. The toxicity of associated components is described in Section II. Although the toxicity of reverse transcriptase has not been documented the known function of the enzyme (that of synthesis of cDNA) is such that due care should be taken to prevent ingestion or skin contact. Remote pipetting, the wearing of gloves, goggles, and other protective clothing are therefore advised. Effect of Exposure - Allergic response is possible. Emergency and First-Aid Procedures - Call a physician, describe details of exposure. Should eye or skin contact occur, wash with water for 15 minutes.

SECTION VI: REACTIVITY DATA

Stable	at -70oC and -20oC
Unstable	n.a.
Condition to avoid	Heat, acids, bases
Material to avoid	n.a.
Oxidizing agents	Glycerol can explode when in contact with nitric, sulfuric, hydrofluoric, or perchloric acids, peroxides, potassium permanganate, perchlorates and sodium hydroxide.
Polymerization	None known.

SECTION VII: SPILL OR LEAK PROCEDURES

Spill	Wear protective clothing. Ventilate the area of the spill. Collect material by absorption with vermiculite or paper and hold for waste disposal. Then wash site with water.
Waste Disposal	Incinerate in a furnace having local environmental regulations permit. Dispose by means that comply with local, state and federal regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection	Self-contained breathing apparatus for fires.
Ventilation	General room ventilation is satisfactory. Local ventilation when necessary.
Protective Gloves	Impervious, chemical resistant gloves.
Eye Protection	Safety glasses with side shields or goggles.
Other Protective Equipment	Safety shower, eyewash and respiratory equipment. Safety pipet device. Suitable protective clothing.

SECTION IVX: TRASPORT INFORMATION

U.S. DOT	This substance is considered to be non-hazardous for transport
IATA:	Non-hazardous for air transport

Life Sciences Advanced Technologies, Inc.
2900 72nd Street North, St. Petersburg, Florida 33710 USA
Telephone (727) 345-9371 Fax (727) 347-2957 www.lifesci.com