

# MATERIAL SAFETY DATA SHEET

FILE NO.: MSDS-MAXPAR-175Lu      Version: 2.0

MSDS DATE: 10/17/2011

MAXPAR® X8 Antibody Labeling Kit (<sup>175</sup>Lu)

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** MAXPAR® X8 Antibody Labeling Kit (<sup>175</sup>Lu)

**SYNONYMS:**

**PRODUCT CODES:** 201175A; 201175B

**MANUFACTURER:** DVS Sciences Inc.

**DIVISION:**

**ADDRESS:** 70 Esna Park Drive, Unit 12  
Markham, ON L3R 6E7

**TECHNICAL PHONE:** (905) 513-1704

**PRODUCT USE:**

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**DESCRIPTION:** Mixture of the substances listed below with non-hazardous additions.

<u>PRODUCT NAME</u>	<u>CAS NO.</u>	<u>%WT</u>	<u>%VOL.</u>
MAXPAR® X8 Antibody Labeling Kit ( <sup>115</sup> In)	None	N/A	N/A
<b><u>HAZARDOUS COMPONENTS</u></b>			
Lutetium (III) Chloride	15230-79-2	N/A	<1%
Ammonium Acetate	631-61-8	N/A	<1%
<b><u>CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION</u></b>			
Deionized water (Gradient, >18MΩ)	7732-18-5		~98%
Polymer Tag with DTPA + Linker	None	N/A	N/A

### SECTION 2 NOTES:

Lutetium (III) Chloride is present in the mixture at <1%. According to 29CFR1910.1200(d) ingredients at less than 1% concentration are not considered hazardous.

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Causes skin and eye irritation. May be harmful if swallowed. In case of contact with eyes or skin rinse immediately with plenty of water and seek medical advice.

### POTENTIAL HEALTH EFFECTS

**EYES:** Causes eye irritation.

**SKIN:** May be harmful if absorbed through the skin. Causes skin irritation.

**INGESTION:** May be harmful if swallowed.

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### CARCINOGENICITY

**OSHA:** None

**ACGIH:** None

**NTP:** None

**IARC:** None

**OTHER:** N/A

**SECTION 3 NOTES:** No component of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA; ACGIH; NTP or IARC.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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**SKIN:** Wash off with soap and plenty of water. Consult a physician.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**SECTION 4 NOTES:** In general, consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABILITY:** Not flammable or combustible.

**EXTINGUISHING MEDIA:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus for fire fighting if necessary.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No data available.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride gas; lutetium oxides.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**SECTION 6 NOTES:** Do not let product enter drains. Keep in suitable, close containers for disposal.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Avoid formation of aerosols.

**OTHER PRECAUTIONS:** None.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Use mechanical exhaust or laboratory fumehood to avoid exposure.

**VENTILATION :** N/A

**RESPIRATORY PROTECTION:** N/A

**EYE PROTECTION:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**HAND PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**SKIN PROTECTION:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice. Wash hands after use.

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**EXPOSURE GUIDELINES:** Contains no substances with occupational exposure limit values.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE: Buffers and Metal Solution:** Clear, colorless. **Polymer:** White

**ODOR:** No odor

**PHYSICAL STATE: Buffer and Metal Solution:** Liquid. **Polymer:** Amorphous solid

**pH AS SUPPLIED:** No data available.

**pH (Other):**

**BOILING POINT:** No data available.

F:

C:

**MELTING POINT:** No data available.

F:

C:

**FREEZING POINT:** No data available.

F:

C:

**VAPOR PRESSURE (mmHg):** No data available.

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F:

C:

**VAPOR DENSITY (AIR = 1):** No data available.

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F:

C:

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** No data available.

@

F:

C:

**EVAPORATION RATE:** No data available.

**BASIS (=1):** No data available.

**SOLUBILITY IN WATER:** Fully soluble.

**PERCENT SOLIDS BY WEIGHT:** No data available.

**PERCENT VOLATILE:** N/A

BY WT/ BY VOL @

F:

C:

**VOLATILE ORGANIC COMPOUNDS (VOC):** N/A

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

**MOLECULAR WEIGHT:** No data available.

**VISCOSITY:** No data available.

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F:

C:

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID (STABILITY):**

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**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen chloride gas; lutetium oxides.

**HAZARDOUS POLYMERIZATION:** No data available.

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** No data available.

**GERM CELL MUTAGENICITY – CARCINOGENICITY:**

IARC: No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**REPRODUCTIVE TOXICITY:** No data available.

**TERATOGENICITY:** No data available.

**SIGNS AND SYMPTOMS OF EXPOSURE:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS:** Not available.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** CAS #631-61-8: Toxicity to fish LC50 - Cyprinus carpio (Carp) - 56 mg/l - 48 h

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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## SECTION 14: TRANSPORT INFORMATION

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**U.S. DEPARTMENT OF TRANSPORTATION**

CAS# #631-61-8

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Ammonium acetate)

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

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## SECTION 15: REGULATORY INFORMATION

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**INTERNATIONAL REGULATIONS:** CAS #15230-79-2 is not listed on the Canadian DSL list.

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## SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** The statements contained herein are offered for informational purposes only and are based upon technical data. DVS Sciences Inc. believes them to be accurate at the date of publication, but does not purport to be all-inclusive. The above-stated product is

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intended for use only by persons having the necessary technical skills and facilities for handling the product at their discretion and risk. Since conditions and manner of use are outside our control, we (DVS Sciences Inc.) make no warranty of merchantability or any such warranty, express or implied with respect to information and we assume no liability resulting from the above product or its use. Users should perform their own investigations to determine suitability of information and product for their particular purposes.

