

# MATERIAL SAFETY DATA SHEET

FILE NO.: MSDS-Inter-natlr

MSDS DATE: 11/07/2011

Product Name MAXPAR® Nucleic Acid Intercalator, natlr



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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** MAXPAR® Nucleic Acid Intercalator, natlr

**SYNONYMS:** Iridium (III) Complex

**PRODUCT CODES:** 201192A; 201192B

**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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<u>PRODUCT NAME</u>	<u>CAS NO.</u>	<u>%WT</u>	<u>%VOL.</u>
MAXPAR® Nucleic Acid Intercalator, natlr	N/A	N/A	N/A
<b><u>HAZARDOUS COMPONENTS</u></b>			
Iridium (III) Complex	N/A	100	

**SECTION 2 NOTES:**

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Causes skin irritation and serious eye irritation. May cause respiratory irritation. May be toxic 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 serious eye irritation.

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

**RESPIRATORY:** May be harmful if inhaled. May cause respiratory tract 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.

**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.

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**INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Consult a physician. Show this safety data sheet to the doctor in attendance.

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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 firefighting if necessary.

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

**HAZARDOUS COMBUSTION PRODUCTS:** Hazardous decomposition products formed under fire conditions; hydrogen chloride gas, iridium oxides

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Use personal protective equipment. Avoid dust formation. 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 dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**OTHER PRECAUTIONS:** Keep container tightly closed in a dry and well-ventilated place.

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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.

**RESPIRATORY PROTECTION:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**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.

**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:** Pale-green powder

**ODOR:** No odor.

**PHYSICAL STATE:** Crystalline

**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.

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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):** N/A

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents, acids, bases, alkali metal salts, copper, zinc salts, cyanides

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen chloride gas, iridium oxides.

**HAZARDOUS POLYMERIZATION:** No data available.

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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:** N/A

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** No data available.

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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:** Not dangerous goods.

**OTHER AGENCIES:** Not dangerous goods.

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## SECTION 15: REGULATORY INFORMATION

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**INTERNATIONAL REGULATIONS:** Not WHMIS controlled. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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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 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.