

**Pendragon Holdings Ltd.**  
Ferguson Centre, Manse Rd, Glengormley  
Belfast, BT36 6RW, Northern Ireland  
\*\*44 2890 830849

July 4, 2005  
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## **MATERIAL SAFETY DATA SHEET**

**For**

**PD3**

### **Section 1 – Product Information**

Manufacturer's Name: Pendragon Holdings Ltd.  
Ferguson Centre  
Manse Rd  
Glengormley  
Belfast BT36 6RW  
Northern Ireland  
\*\*44 2890 830849

After Hours Emergency Assistance: Pendragon Holdings Ltd.  
\*\*44 2890 830849

Product Name: PD3  
Chemical Name: Aqueous Solution  
Chemical Family: Aqueous solution  
Formula: Trade secret  
CAS Number: 7732-18-5 / EG Number 255-785-4

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### **SECTION II – HAZARD RATING**

<u>Hazardous Rating</u>	(HMIS)	<u>Hazard Rating Scale</u>
Health	0	0 = Minimal
Flammability	0	1 = Slight
Reactivity	0	2 = Moderate
Protection	0	3,4 = Serious
(Hazardous Compounds):	None	G = Gloves, Goggles

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### **SECTION III – PHYSICAL DATA**

Appearance:	Red solution
Odour:	none
Specific Gravity @25 <sup>0</sup> C:	1.00
Boiling Point:	100 <sup>0</sup> C
Vapour Pressure @ 20 <sup>0</sup> C:	17.5mmHg @20 <sup>0</sup> C
Vapour Density:	N/A air=1
Solubility in Water:	Miscible in all Proportions
Percent Volatile:	Not Volatile
Evaporation Rate (Ether = 1):	Not Established

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### **SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

Flash Point (TOC):	None
Flammable Limits:	None
Extinguishing Media:	None Required
Special Fire Fighting Procedures:	None Required
Unusual Fire and Explosion Hazards:	None

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### **SECTION V – HEALTH HAZARD DATA**

Threshold Limit Value (TLV):	Not determined by ACGIH
Permissible Exposure Limit (PEL):	Not determined by OSHA
SARA TITLE III:	Not listed as reportable substance No reportable quantity (RQ) LIMIT
Route of Exposure:	Eye, skin contact, ingestion
Health Hazard from Acute Exposure:	Swallowing large quantities can be harmful. Ingestion of large quantities can cause vomiting, headache and other harmful problems.

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Health Hazard from Chronic

Exposure: Prolonged or repeated exposure can cause drying, defatting, and dermatitis of skin. The components of PD5 are not listed as carcinogenic by NTP, OSHA, or IARC.

Medical Conditions Generally

Recognised as Being

Aggravated by Exposure: None Known

Emergency and First Aid Procedures:

Eyes: Remove Contact lenses at once. Flush with water. If irritation persists, see a physician.

Skin: None required.

Ingestion: None required

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**SECTION VI – REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Excessive heat or freezing

Incompatibility with: Avoid strong oxidising agents

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#### Hazardous Decomposition

Products: Insignificant. Mostly moisture, trace amounts of CO<sub>2</sub> and CO. Product is not an oxygen donor.

#### Conditions to Avoid for

Polymerisation: None

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### **SECTION VII – SPILL, LEAK AND DISPOSAL PROCEDURES**

Although PD3 is not expected to pose any specific health hazard, the following precautions are recommended due to possible irritation from the dye tracer contained in the product. Individual dermal and respiratory sensitivities to PD3 will vary.

Respiratory Protection: None required

Ventilation: Handle product in a normal, well-ventilated area

Personal Protective Equipment: Take protective measures to avoid eye and skin contact.

Hygienic Practices: Avoid prolonged contact with skin, breathing Mist, and do not take internally. Wash thoroughly with soap and water after skin contact. Skin cream may be used to reduce possible irritation. If taken internally do not induce vomiting. Rinse mouth with water, then drink one glass of water.

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**SECTION VIII – FIRE AND EXPLOSION INFORMATION**

Precautions to be taken in

Handling and Storage:	Keep product away from heat, to remain quality. Store in a cool, dry place. Minimise product exposure to direct sunlight in hot climates.
Other Precautions:	Store products in an area between 4-50°C. Store in tightly sealed containers.

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**SECTION IX – REGULATORY STATUS**

1. NTP, OSHA, and IARC do NOT list product as carcinogenic to humans.
  2. Unused product is NOT listed by EPA as Hazardous waste (40CR Part 261).
  3. PD5 is NOT listed on California's Prop. 65 toxic substance list.
  4. PD5 does NOT contain lead, cadmium, mercury, hexavalent chromium or come into contact with these chemicals.
  5. PD5 does NOT contain and is NOT manufactured with any Class I or II ozone depleting substances.
  6. PD5 is NOT a combustible liquid, it is not hazardous under OSHA 29CFR 1910.1200.
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### **SECTION X – SHIPPING CLASSIFICATIONS**

Shipping Name:	Aqueous Solution
Hazard Class:	0
ID Number:	P91-396
Packing Group:	3402.90.5010
Highway/Rail:	Keep from freezing.
Air/Ship:	Keep from freezing.
Emergency Phone Number:	Pendragon Holdings Ltd. **44 2890 830849

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### **SECTION XI – NOTICE**

All statements, information, and data provided in this Material Safety Data Sheet are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied, on our part. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.