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## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT / COMPANY INFORMATION

#### 1.1 Company Identification -

Pro Technology International Ltd.  
33 Stapleton Street Winnipeg, Manitoba  
Canada, R2L 1Z9

Phone (001)204-988-3484  
Fax (001)204-988-3480  
email info@protechnology.com

1.2 Product Name - Plastic Welding Wire Nylon (PA)

1.3 Product Part # - PW681

1.4 Product Use - Plastic repair material.

1.5 Emergency Telephone Number (24-Hour) - (001)204-988-3484

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>2.1 Component</u>	<u>CAS#</u>	<u>EC#</u>	<u>Amount</u>
Polyamide (PA-6)	25038-54-4	Polymer	>= 99.0%

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### 3. HAZARDS IDENTIFICATION

3.1 This product is not classified as dangerous according to EC criteria.

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### 4. FIRST AID MEASURES

- 4.1 Eye Contact** - In case of dust contact, flush eyes thoroughly with water for several minutes. Remove contact lens if worn and continue flushing for several additional minutes. Seek medical attention if irritation persists.  
For thermal eye burns, immediately flush eyes with water and continue flushing for several minutes. DO NOT remove contact lens if worn. Obtain medical attention without delay, preferably from an ophthalmologist.
- 4.2 Skin Contact** - If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Seek medical attention immediately.
- 4.3 Inhalation** - Move person to fresh air; if effects occur, seek medical attention.
- 4.4 Ingestion** - If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.
- 4.5 Notes to Physician** - If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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### 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media** - Carbon dioxide, foam, dry chemical, water fog.
- 5.2 Fire Fighting Procedures** - Keep people away. Do not apply direct water to molten, burning material as this may cause spattering and spread the fire. Hand held dry chemical or carbon dioxide extinguishers can be used for small fires.



## **5. FIRE FIGHTING MEASURES Cont.**

- 5.3 Fire Fighting Equipment** - Full protective equipment including self contained breathing apparatus should be used. If protective equipment is not available or not used, fire fight from a protected location or safe distance.
- 5.4 Unusual Fire and Explosion Hazards** - No particular hazards known.
- 5.5 Hazardous Combustion Products** - During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to; Carbon Monoxide, Carbon Dioxide.

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## **6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Accidental Release** - Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological information; Section 13, Disposal Considerations.

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## **7. HANDLING AND STORAGE**

- 7.1 General Handling** - Avoid breathing process fumes. Use with adequate ventilation. Do not get molten material in eyes, on skin or clothing.
- 7.2 Storage** - Store in accordance with good manufacturing practices.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1 Exposure Limits** - None established.
- 8.2 Eye/Face Protection** - Use safety glasses. Safety glasses should be consistent with Directive 89/686/EEC Category 2. If smoke or fumes cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
- 8.3 Skin Protection** - No precautions other than appropriate body-covering clothing for the work environment.
- 8.4 Hand Protection** - Use gloves with insulation for thermal protection, when needed.
- 8.5 Respiratory Protection** - An EC approved air-purifying respirator when smoke or fumes are generated during use. Use an Organic vapor cartridge with particulate pre-filter, type AP2.
- 8.6 Ingestion** - Practice good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.
- 8.7 Ventilation** - Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Physical State** - Wire/rod of approx. 3.175mm in diameter
- 9.2 Color** - Translucent to White
- 9.3 Odor** - None
- 9.4 Flash Point** - No test data available
- 9.5 Flammable Limits In Air** - Lower; Not applicable / Upper; Not applicable
- 9.6 Autoignition Temperature** - No test data available
- 9.7 Vapor Pressure** - No test data available
- 9.8 Boiling Point** - No test data available



## **9. PHYSICAL AND CHEMICAL PROPERTIES cont.**

- 9.9 Vapor Density (air = 1) - No test data available
- 9.10 Specific Gravity - 1.05-1.3
- 9.11 Freezing point - Not applicable
- 9.12 Solubility in Water - Negligible
- 9.13 pH - Not applicable
- 9.14 Kinematic Viscosity - Not applicable

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## **10. STABILITY AND REACTIVITY**

- 10.1 Stability - Stable
- 10.2 Conditions to Avoid - None Avoid prolonged exposure to extreme heat.
- 10.3 Incompatible Materials - Strong oxidizing agents, acids, bases.
- 10.4 Hazardous Polymerization - Will not occur.

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## **11. TOXICOLOGICAL INFORMATION**

### **Acute Toxicity Data**

- 11.1 Ingestion - Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed. Estimated LD50 > 5000 mg/kg/Rat
- 11.2 Eye Contact - Solid or dust may cause irritation or corneal injury due to mechanical action. Fumes or vapors may cause eye irritation. Molten material will cause thermal burns to the eyes.
- 11.3 Skin Contact - Mechanical injury only. Contact with molten material may cause thermal burns.
- 11.4 Skin Absorption - No adverse effects anticipated by skin absorption. Estimated LD50 > 2000 mg/kg/Rabbit
- 11.5 Inhalation - Fumes or vapors released during use may cause respiratory irritation. No adverse effects are anticipated from a single exposure to dust.
- 11.6 Repeated Dose Toxicity - No adverse effects anticipated under normal use conditions.

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## **12. ECOLOGICAL INFORMATION**

### **Chemical Fate**

- 12.1 Ecotoxicity - Material may mechanically cause adverse effects if ingested by waterfowl or aquatic life.
- 12.2 Persistence and Degradability - Product is a water-insoluble polymeric solid and is expected to be inert in the environment. No appreciable biodegradation is expected.
- 12.3 Movement and Partitioning - No bioconcentration is expected due to the high molecular weight of the material (MW > 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

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## **13. DISPOSAL CONSIDERATIONS**

- 13.1 Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.



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#### **14. TRANSPORT INFORMATION**

- 14.1 Road and Rail - Not Regulated
- 14.2 Ocean - Not Regulated
- 14.3 Air - Not Regulated
- 14.4 Inland Waterways - Not Regulated
- 14.5 Canadian TGD Classification - Not Regulated
- 14.6 U.S. DOT Regulations - Not to have met any SARA Hazard Category

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#### **15. REGULATORY INFORMATION**

- 15.1 European Inventory of Existing Commercial Chemical Substances (EINECS) - This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the EINECS or in compliance with European (EU) chemical inventory requirements.
- 15.2 EC Classification and User Label Information - This product is not classified as dangerous according to EC criteria.
- 15.3 Canada DSL - Listed or exempt.
- 15.4 U.S. TSCA - Listed or exempt.
- 15.5 WHMIS - Not Controlled

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#### **16. OTHER INFORMATION**

- 16.1 MSDS Version - Version 2, issued Dec.27/06, by Pro Technology International Ltd.
- 16.2 Other Information -

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