

## MATERIAL SAFETY DATA SHEET PLWN-2W

| <b>1. Chemical Product Identification and Manufacturer Information</b> |  |
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| Brand name   | PLWN-2W Unoxidized Polyethylene Wax  |
| Technical name   | Low-molecular homopolymer  |
| Manufacturer   | INHIMTEK Ltd   |
| Address  | Building A13, 1, Ulyanovskaya str., Novokuybyshevsk, Samara Region, 446209   |
| E-mail   | <a href="mailto:info@inhimtek.ru">info@inhimtek.ru</a>   |
| Phone  | +7 (846) 375 33 10   |
| <b>2. Chemical Composition (Component Information)</b>                 |  |
| Chemical name  | Low-molecular polyethylene   |
| Chemical formula   | (C <sub>x</sub> H <sub>2x</sub> ) <sub>n</sub>   |
| CAS number   | 9002-88-4  |
| Assay  | 100%   |
| <b>3. Potential Dangers</b>  |  |
| Hazard class   | IV according to GOST 12.1.007-76   |
| Health effects   | Does not have any acute or chronic exposure. Dust inhalation can cause reactive airway disease. Causes thermal burn when melted. Biologically inert.   |
| Environmental hazards  | Environmentally-friendly. In the environment acts as a non-indigenous long-term decomposition element  |
| Other information  | Low-flammable, evolves CO <sub>2</sub> and irritants while burning. The product is subject to electrostatic charging.  |
| <b>4. First Aid Measures</b>   |  |
| General conditions   | Special measures are not required.   |
| Symptoms   | Slightly-toxic, poisoning symptoms do not develop  |
| After inhalation   | Take the person outside  |
| After eye contact  | Wash with water, remove as any other mechanical impurity   |
| After skin contact   | No reaction. Can cause thermal burn when melted.   |
| <b>5. Fire Extinguishing Measures</b>                                  |  |
| Fire extinguishers to be used  | Small fire – dry powder, carbon dioxide or foam fire extinguishers. Big fire – water spray, water mist or foam.  |
| Not to be used   | Head water streamflow  |
| Special considerations in case of fire                                 | Burning evolves irritant gases and heavy smoke   |
| Special explosion hazard   | Dust particles production can be caused during manufacturing. If they gather in large quantities, there can be a big explosion caused by an open fire. Therefore, these places should be provided with exhaust ventilation excluding open fire. Static electricity neutralization from equipment should be provided. |
| Firemen protection   | Protective gear, breathing apparatus   |

| <b>6. Emergency Measures (Accidental Emission)</b>                    |  |
|---|--|
| Personal safety, protection gear, emergency measures                  | Spilt product can cause slipping and falling. Avoid dusted places.   |
| Prevention measures   | Do not drain spilt product.  |
| Interception and treatment methods and material                       | Spilt product should be swept and collected in a separate container. Recycle or recover the product according to contamination.  |
| <b>7. Treatment and Storage</b>                                       |  |
| Safe treatment  | Follow all the fire-prevention measures (do not work with open fire, remove potential ignition sources, prohibit smoking). Prevent dust production and static voltage.   |
| Safe storage conditions   | No special safe storage conditions are required.   |
| <b>8. Restrictions and Sampling Inspection. Individual Protection</b> |  |
| Exposure limit values   | Safe dust concentration limit in occupational air is 5mg/m <sup>3</sup>  |
| Exposure control  | Recommended method of dust concentration evaluation: gravimetric analysis, dust meter  |
| Occupational exposure control   | Collective protection: proper ventilation<br>Individual protection: protective eyewear, respirator, work wear, protective gloves   |
| <b>9. Physical and Chemical Properties</b>                            |  |
| Basic physical and chemical properties information                    | Physical state at 20°C – solid substance<br>Colour - white<br>Smell – typically paraffin<br>Degree of flammability – highly flammable<br>Density at 25°C – 0.92-0.95 g/cm <sup>3</sup><br>Water solubility at 20°C - insoluble<br>Solubility in aliphatic, aromatic solvents and chlorinated hydrocarbons at 20°C - soluble<br>Melting point - 105-124°C<br>Flash point - 380-390°C<br>Dust burning point - 350°C<br>Combustion value – 46-47 MJ/kg <sup>-1</sup><br>Bulk weight – 500-550 kg/m <sup>3</sup> |
| <b>10. Persistence and reactive power</b>                             |  |
| Conditions to be avoided  | The substance at room temperature is persistent. Avoid temperature over 300°C, ignition sources, static electricity.   |
| Decomposition products  | At high temperatures CO, CO <sub>2</sub> and H <sub>2</sub> O is produced in the air   |
| <b>11. Toxicological Information</b>                                  |  |
| Acute effects   | According to up-to-date information the product is not harmful for people and does not affect people's health. Long inhalation of decomposition products can cause headache and respiratory irritation.  |
| Sensibility   | Does not have any sensitizing effect.  |
| Carcinogenicity, mutagenicity, carcinogenicity                        | No proved CMR affect   |
| <b>12. Ecology Data</b>   |  |
| Ecotoxicity   | The product is considered environmentally-friendly.  |

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| Duration/decomposition  | In the environment acts as a non-indigenous long-term decomposition element. It is decomposed under ultraviolet radiation, is not soluble in water. |
| <b>13. Decontamination Measures</b>   |   |
| Recommended decontamination and prevention measures   | Avoid draining, recover mechanically. Reuse the product as a fuel.  |
| <b>14. Transportation Information</b>   |   |
| Transportation class  | The product is not dangerous. Transportation without any restrictions.  |
| <b>15. National and International Law Information</b>   |   |
| Safety, health and environmental regulations / special legal regulations  | Not available   |
| Product marking   | Not required (the product is not referred to as 'dangerous')  |
| <b>16. Other information</b>  |   |
| The material safety data sheet is developed according to GOST 30333-2007. It contains data required to provide safety and health protection at work and to provide environment protection. These data do not substitute for a quality data sheet and cannot be considered warranty of the product fitness for a particular purpose. The customer bears responsibility for the compliance of the existing local legal regulations. |   |