# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

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| **TRADE NAME** | **800 PERMANENT ASPHALT REPAIR** | | **D2B** |
| APPLICATION OF THE SUBSTANCE/PREPARATION | Asphalt cold mix for patching and repairing potholes in asphalt. | | |
| MANUFACTURER/SUPPLIER | IMCO TECHNOLOGIES<br>6254 SKYWAY RD., PO BOX 915<br>SMITHVILLE, ON. L0R 2A0 | TEL 1-888-818-4626<br>FAX 905-527-0606 | IMCO TECHNOLOGIES<br>3909 Witmer RD, Suite 1014<br>NIAGARA FALLS, NY 14305 |
| EMERGENCY NUMBER | 613-996-6666 or *666 CANUTEC<br>1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE | | |

## 2. HAZARDS IDENTIFICATION


**G**HS CLASSIFICATION: Flammability 3, Reactivity 5, Health 4

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|---|---|
| ROUTE OF ENTRY | Eye contact, Ingestion, Skin contact, and Inhalation. |
| CARCINOGENIC STATUS | IARC has determined that there is sufficient evidence for the carcinogenicity of asphalt fumes (refined bitumen) in experimental animals, but not in humans. |
| TARGET ORGANS | Eye, and Skin |
| HEALTH EFFECTS – EYE | Severe irritation including redness, tearing and blurred vision. |
| HEALTH EFFECTS – SKIN | Prolonged or repeated contact may cause skin irritation and/or dermatitis. |
| HEALTH EFFECTS – INGESTION | Swallowing these materials can cause irritation of the mouth, throat and stomach. Nausea, vomiting and diarrhea may result from ingestion. However, it is unlikely that people working with this product would swallow it. |
| HEALTH EFFECTS – INHALATION | Breathing the fumes from this product, particularly when heated and/or in an enclosed space may cause headache, nausea, and feeling of dizziness or weakness. Fumes can irritate the nose, throat and lungs. Prolonged exposure to high levels of fumes may result in loss of consciousness and in rare instances, death as a result of not being able to breath. |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| **HAZARDOUS INGREDIENTS** | **CAS NUMBER** | **WEIGHT %** | **TWA** ppm | **LD50 ORAL RAT Mg/kg** | **LC50 INHAL RAT** ppm |
|---|---|---|---|---|---|
| ASPHALT | 8052-42-4 | 3 – 5 | 5 | NA | NA |
| FUEL OIL | 68334-30-5 | 0.5 – 1.5 | NA | NA | NA |

## 4. FIRST AID MEASURES

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| FIRST AID – INHALATION | Move person from the fumes to fresh air. If breathing is difficult, administer oxygen and obtain immediate medical attention. |
| FIRST AID – SKIN | Immediately flood the skin with large quantities of water. Remove contaminated clothing and shoes. Obtain medical attention. |
| FIRST AID – EYE | Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention. |
| FIRST AID – INGESTION | Do not induce vomiting. Vomiting can cause the product to be aspirated into the lungs, causing chemical pneumonitis. This can be fatal. Obtain immediate medical attention. |

**INFORMATION FOR DOCTOR:**

**Most important symptoms and effects, both acute and delayed.** No further relevant information available.
**Indication of any immediate medical attention and special treatment needed.** No further relevant information available.

## 5. FIRE FIGHTING MEASURES

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| CONDITIONS OF FLAMMABILITY | This product is flammable when exposed to sparks or open flames. |
| EXTINGUISHING MEDIA | Carbon dioxide, dry chemical, foam, water spray. |
| SPECIAL HAZARDS OF PRODUCT | Product may release hydrogen sulphide gas at high temperatures. |
| PROTECTIVE EQUIPMENT FOR FIRE FIGHTING | Firefighters should wear positive pressure, self-contained breathing apparatus. Equipment should be decontaminated after use. |
| EXPLOSION DATA – SENSITIVITY TO IMPACT | N/A |
| EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE | N/A |

## 6. ACCIDENTAL RELEASE MEASURES

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| SPILL PROCEDURES | Remove all sources of ignition and flames. Increase ventilation in the spill area. Scoop up material into a suitable container. The material can be reused. |
| PERSONAL PRECAUTIONS | Wear chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots. Avoid breathing vapours and contact with product. Ventilate area. Handle as a flammable solid. |
| ENVIRONMENTAL PRECAUTIONS | Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer. |

**REFERENCE TO OTHER SECTIONS:**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

## 7. HANDLING AND STORAGE

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| HANDLING | Avoid prolonged or repeated skin-contact as well as inhalation of vapours or mist. Wear personal protective equipment and work with adequate ventilation. |
| STORAGE | Keep the material away from sparks, fire, open flames and heat. Store in a cool dry well-ventilated area away from sunlight. |

**INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:**
Keep ignition sources away – Do NOT Smoke
Protect against electrostatic charges

**SPECIFIC END USE(S)** : No further information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| ENGINEERING CONTROL MEASURES | Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access. |
| RESPIRATORY PROTECTION | Use a NIOSH-approved organic vapour respirator cartridge if material is used in confined areas or poorly ventilated areas. |
|  HAND PROTECTION | Full-length gloves should be worn during all handling operations. Neoprene gloves. Wash hands thoroughly after working with this material. |
| EYE PROTECTION | Chemical goggles should be worn during all handling operations. |
| BODY PROTECTION | Discard contaminated protective equipment. Wear impervious clothing and shoes. |
| PROTECTION DURING APPLICATION | During application, adequate ventilation must be provided. Mix in a well-ventilated area. If ventilation is poor, wear respiratory protection. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| PHYSICAL STATE | Solid |
| ODOUR & APPEARANCE | Petroleum, black coated stones |
| ODOR THRESHOLD (ppm) | NA |
| SPECIFIC GRAVITY | Greater than water |
| VAPOR DENSITY (AIR = 1) | Heavier than air |
| VAPOR PRESSURE 20 C | NA |
| EVAPORATION RATE | NA |
| BOILING POINT ($^0$ C) | Not Applicable |
| FREEZING POINT ($^0$ C) | Not Applicable |
| pH | Not Applicable |
| COEFFICIENT OF WATER/OIL DISTRIBUTION | Not Applicable |
| SOLUBILITY IN WATER | Negligible |
| VOC (g/l) | NA |
| FLASH POINT (PMCC) (°C/F) | >93.3C/200F |
| UPPER FLAMMABLE LIMIT %VOL | Unknown |
| LOWER FLAMMABLE LIMIT %VOL | Unknown |
| AUTOIGNITION TEMP (°C/F) | NA |

## 10. STABILITY AND REACTIVITY

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| STABILITY | Stable under normal conditions |
| CONDITIONS TO AVOID | Sparks and open flames, excessive heat approaching flash point. |
| MATERIALS TO AVOID | Strong acids, alkalis, oxidizing agents i.e.: nitric acids, permanganates, and chlorine oxygen. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Carbon monoxide and other potentially hazardous organic compounds may be formed when this material burns. |

## 11. TOXICOLOGICAL INFORMATION

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| EFFECTS OF ACUTE EXPOSURE | **Inhalation** – Excessive exposure to vapours may be irritating to the nose, throat, upper respiratory tract and lungs. Excessive exposure to vapours can result in headache, dizziness, nausea and narcotic effects. This product contains sulfur, which may form hydrogen sulphide. Signs and symptoms of overexposure to hydrogen sulphide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. **Skin** – Drying, cracking or inflammation of skin (cool material). Thermal burns may result from contact with hot material resulting in pain, discoloration and swelling. Toxic amounts of product may be absorbed through the skin. **Eyes** – The cool material will cause minor eye irritation. However, thermal burns may result from contact with hot material. The degree of the injury will depend on the amount that gets into the eye and the speed and thoroughness of the first aid. Symptoms may include: pain, tears, swelling, redness and blurred vision. **Ingestion** – If swallowed, this product may cause vomiting, nausea and diarrhea. |
| EFFECTS OF CHRONIC EXPOSURE | May cause dermatitis and irritation on repeated contact. |
| EXPOSURE LIMITS | Asphalt – TLV 5 ppm (fumes) |
| IRRITANCY | Moderate irritation expected |
| SENSITIZATION | NA |
| CARCINOGENICITY | IARC has determined that there is sufficient evidence for the carcinogenicity of asphalt fumes (refined bitumen) in experimental animals, but not in humans. |
| REPRODUCTIVE TOXICITY | NA |
| TERATOGENICITY | NA |
| MUTAGENICITY | NA |
| TOXICOLOGICALLY SYNERGISTIC PRODUCTS | NA |

## 12. ECOLOGICAL INFORMATION

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| MOBILITY | This product is poorly absorbed onto soils or sediments. |
| PERSISTENCE/DEGRADABILITY | The heavier molecular weight of asphalt may be persistent under some environmental conditions. |
| BIO-ACCUMULATION | There is no evidence that the components of this product bioaccumulate in food chains. |
| ECOTOXICITY | No data available. |

**RESULTS OF PBT and vPvB Assessment**
**PBT:** N/A
**vPvB:** N/A

## 13. DISPOSAL CONSIDERATIONS

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| PRODUCT DISPOSAL | Use old or contaminated material as a base for fresh product. Dispose in approved landfill site. |
| CONTAINER DISPOSAL | Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care. |

**UNCLEANED PACKAGING:**
**RECOMMENDATION:** Disposal must be made according to official regulations.

## 14. TRANSPORTATION INFORMATION

| **CANADA** | **TDG CLASSIFICATION** |
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| HAZARD LABEL NOT REQUIRED | Not Regulated. |
| **EXPORT** | |
| DOT CFR 172.101 DATA | Not Regulated by D.O.T. as a hazardous substance. |

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| UN PROPER SHIPPING NAME | NA |
| UN CLASS | NA |
| UN NUMBER | NA |
| UN PACKAGING GROUP | NA |
| FLASH POINT | NA |
| HAZARDOUS MATERIAL | NA |
| HAZARD LABEL | NA |
| MARINE POLLUTANT | NO |
| SPECIAL PRECAUTIONS FOR USER | N/A |

## 15. REGULATORY INFORMATION

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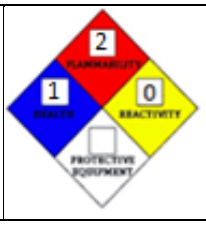
| WHMIS CLASSIFICATION: CLASS D, DIV.2, SUB DIVISION B-Material causing other toxic effects. |
| CEPA STATUS (DSL): All of the ingredients of this product are listed on the Domestic Substances List. |
| This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR. |

## 16. OTHER INFORMATION


HMIS hazard ID:

0-MINIMAL;
1-SLIGHT;
2-MODERATE;
3-SERIOUS;
4-SEVERE




NFPA hazard ID:

0-MINIMAL;
1-SLIGHT;
2-MODERATE;
3-SERIOUS;
4-SEVERE

| | |
|---|---|
| KEY | NA: No applicable information found or available<br>CAS#: Chemical Abstracts Service Number<br>ACGIH: American Conference of Governmental Industrial Hygienists<br>OSHA: Occupational Safety and Health Administration<br>TLV: Threshold Limit Value<br>PEL: Permissible Exposure Limit<br>STEL: Short Term Exposure Limit<br>NTP: National Toxicology Program<br>IARC: International Agency for Research on Cancer<br>R: Risk<br>S: Safety<br>LD50: Lethal Dose 50%<br>LC50: Lethal Concentration 50% |
| PREPARED BY: | IMCO® Technologies Inc. |

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| **SDS REVISION DATE** | November 28, 2022 |

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.