



# SAFETY DATA SHEET

## PLUG-R® ASPHALT PLUGS

R2 (JUNE 2015)

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### 1. IDENTIFICATION

Product	ITEM CODES (Unit Weight):	Manufacturing Location (s)
PLUG-R® PERMANENT ASPHALT PLUGS	106050 – 3/4" Plug-R 106100 – 7/8" Plug-R 106150 – 1-1/8" Plug-R 106200 – 1-1/4" Plug-R 106300 – 1-1/2" Plug-R 106400 – 1-3/4" Plug-R	USA: Stormville, NY Canada: None

**Synonyms:** Plug-R Asphalt Plugs, Asphalt Plugs, Stake Hole Plugs, Tent Hole Plugs, Bore Hole Plugs, Pavement Plugs, Drill Plugs.

**Product Description:** Plug-R Asphalt Plugs are used to seal test holes for utility companies and tent stake holes to prevent the hole from forming a pothole due to water infiltration.

### 2. HAZARD(S) IDENTIFICATION

Health	
<b>GHS CLASSIFICATIONS (US)</b> <ul style="list-style-type: none"> <li>Acute toxicity (Oral): 4</li> <li>Acute toxicity (Dermal): 4</li> <li>Skin Irritation: 3</li> <li>Serious Eye Damage: 2B</li> <li>Skin Sensitization: 2</li> <li>Carcinogenicity: 2</li> <li>Specific Target Organ Toxicity – Single Exposure: 3</li> <li>Specific Target Organ Toxicity After Repeat Exposure: 2</li> </ul>	
<b>GHS Label Symbols:</b>	
<b>SKIN / EYE &amp; LUNG IRRITANT</b>	

**Hazard Statements:****WARNING!**

- May cause skin irritation.
- May combust under fire.
- May be harmful and create blockage if swallowed.

**Prevention Statements****CAUTION:**

- Do not expose product to unprotected skin
- Wear Eye/Face Protection and Work Gloves
- Do not expose to fire
- Store container in a cool and dry place
- Wash exposed areas of body thoroughly after handling.

**Protective Gear Required (PPE):****Eye Protection****Safety Gloves****3. COMPOSITION / INFORMATION ON INGREDIENTS**

Name	CAS no.	Agency	Exposure Limits	Comments
Aggregate	Various	n/a	n/a	
PETROLEUM ASPHALT FUME	8052-42-4	OSHA OSHA NIOSH NIOSH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> REL-TWA 10 mg/m <sup>3</sup> REL-TWA 5 mg/m <sup>3</sup>	In 1997 the ACGH proposed lowering the exposure limit for petroleum asphalt to 0.5 mg/m <sup>3</sup>
RECYCLED RUBBER	9006-04-6			
WAX	110-30-5	OSHA OSHA NIOSH NIOSH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> REL-TWA 10 mg/m <sup>3</sup> REL-TWA 5 mg/m <sup>3</sup>	
MOLD RELEASE	61790-44-1	OSHA OSHA  ACGIH	PEL-TWA [30 mg/m <sup>3</sup> ]/% SiO <sub>2</sub> + 2 PEL-TWA [10 mg/m <sup>3</sup> ]/% SiO <sub>2</sub> + 2 or [250 mppcf]/ % SiO <sub>2</sub> + 5 TLV-TWA 0.025R mg/m <sup>3</sup>	
COMPOUND	61790-53-2	OSHA	PEL-TWA [80 mg/m <sup>3</sup> ]/% SiO <sub>2</sub> + 2	
	61789-30-8			

*Note-Chemical admixtures may be present in quantities less than 1%. Information on specific admixtures will be provided by the supplier upon request.*

**4. FIRST AID MEASURES****Primary Route(s) of Exposure:**

- Inhalation
- Eye / Skin Contact
- Ingestion

**Potential Health Effects:**

**Inhalation:** Keep unused product in a well ventilated area.



**Inhalation:** This product has a slight odor which may cause irritation to the throat or lungs under continuous contact. If showing signs of irritation remove person to fresh air. Seek medical attention if irritation persists.

**Eye Contact:** During application this product may cause moderate eye irritation. If eyes are exposed immediately flush out eye thoroughly with water. Continue flushing for at least 20 minutes, including under eyelids to remove all sand and dust particles. Seek medical attention if irritation persists.

**Skin Contact:** If skin becomes irritated after contact, wash exposed skin with cool water and soap. If a rash, persistent irritation or dermatitis occurs, seek medical attention and advice.

**Ingestion:** If ingested this product may cause blockage of the throat, DO NOT induce vomiting unless directed to do so by a medical professional. Immediately seek medical attention.

**Medical Conditions Generally Aggravated by Exposure:** There are no known medical conditions aggravated by exposure to this product, but care must be taken during application, which requires hammering the plug into place. Continuous installation may aggravate a pre-existing injury such as tennis elbow (lateral epicondylitis) or any knee or joint injury.

## 5. FIRE-FIGHTING MEASURES

**Flash Point:** 400°F ( 204°C ) Minimum (Cleveland Open Cup Method Used)

**Flammable Limits:** 600°F (316°C)

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Foam, Dry Chemical CO<sub>2</sub>, Fire Extinguishers or Water Fog.

**Unusual Fire & Explosion Hazards:** If PLUG-R Plugs are involved in a fire do not use water as this can cause eruptions of the hot asphalt materials.

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage Measures:** Dispose in regular waste disposal container being sure to follow all applicable local, state and federal laws. Product can also be returned to the manufacturer for re-use.

**Waste Disposal Methods:** Follow all applicable local, state and federal regulations for disposal.

## 7. HANDLING AND STORAGE

Store in a cool and dry place away from heat and direct sunlight as the product will potentially soften and become distorted. Use OSHA approved glasses during application (hammering) the product into the stake or bore hole. Do not breathe dust. The use of properly fitted safety goggles and work gloves is recommended. Avoid exposure of the product to eyes or skin.

**KEEP OUT OF REACH OF CHILDREN**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Primary Health Hazards:** During application the use of a mallet, hammer or tamper is required. Care must be used when utilizing the tools used for installation to prevent injuries. Prolonged or repeated skin contact may produce irritation.

**Personal Protective Equipment (PPE):** Wear ANSI approved glasses or Safety goggles and work gloves when applying the product.

**Other Protective Clothing or Equipment:** Protective outer garments including long sleeve shirts, workpants, boots and gloves should be used when applying this product.



**Engineering Controls:** Use in areas with ambient ventilation.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands and other areas of contact with soap and water after handling.

**Environmental Exposure:** This product does not present any particular risk for the environment. Refer to applicable national, state and local regulations.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Dense Black Solid
Boiling Point (at 760mm Hg):	500°F (260°C)
Vapor Pressure (mm Hg):	N/A
Vapor Density (air = 1):	N/A
Specific Gravity (water = 1):	0.98
Melting / Freezing Point:	200°F (93°C)
Evaporation Rate (Butyl acetate = 1):	None
Solubility in Water (% by weight):	Not Soluble
pH:	N/A
Freezing Point:	N/A

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:**

**Incompatibility:** Strong oxidizers.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition or By-Products:** None known.

## 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Skin Contact, Eye Contact and Ingestion

- **Skin Contact:** Skin contact of this product may cause slight irritation. Prolonged or frequent contact can cause irritation to the dermatitis.
- **Eye Contact:** If in contact with the eyes, can cause irritation.
- **Ingestion:** If swallowed it can cause blockage to the throat and irritation.

**Toxicity to Animals:**

LD50: Not Available

LC50: Not Available

**Chronic Effects on Humans:** No known chronic conditions are known.

**Special Remarks on Toxicity:** Not Available



## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This product under normal working conditions presents no detectable harm to the environment.

**BOD<sub>5</sub> and COD:** Not available.

**Products of Biodegradation:** Not available.

**Potential to Bioaccumulate:** Not available

**Toxicity of the Products of Biodegradation:** Not available.

**Special remarks on the Products of Biodegradation:** Not available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of unusable material via licensed waste disposal company in accordance with local, state, and federal guidelines.

## 14. TRANSPORT INFORMATION

**DOT/UN:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

Not regulated as a hazardous waste material by the U.S. Department of Transportation and TDG Regulations.

## 15. OTHER REGULATORY INFORMATION

**SARA (Title III) Sections 302/311/312 and 313:** No chemicals in this material are subject to the reporting requirements of SARA Title III sections 302, 311, 312 or 313.

**TSCA (May 1997):** Some substances are on the TSCA inventory list of hazardous materials.

**Federal Hazardous Substance Act:** Not listed

**Canadian Environmental Protection Act:** Not Listed.

**Canadian WHMIS:** Products containing asphalt are classified as D2B and are subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

### Carcinogenicity Listings:

NTP: Not listed as a carcinogen

OSHA/MSHA: This product is considered to be a hazardous chemical.

IARC Monographs: Not a known carcinogen

California Proposition 65: Not listed

**NTP:** This product may contain a trace amount of benzene, a chemical known to cause cancer.

**IARC:** The International Agency for Research on Cancer ("IARC") concluded that there is no known association between industrial exposure to petroleum asphalt and cancer in humans. The IARC reviewed the carcinogenic potential for asphalts in monograph 35. They concluded that there was insufficient evidence that undiluted, air-refined asphalt was carcinogenic to animals, while there was only limited evidence that steam-refined asphalts were carcinogenic to animals. Additionally there was insufficient evidence to conclude that asphalts were carcinogenic to human beings. Studies in which mice were exposed to a variety of whole asphalts did not result in an increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased evidence of certain types of cancer. Brief or intermittent skin contact with this asphalt based product is not expected to produce and delayed effects.

**16. ADDITIONAL INFORMATION****GHS Safety Standards Guide:**

The new UN Global Harmonization System (GHS) of safety and hazard identification standards were adopted by OSHA in 2012 and will be implemented in June 1<sup>st</sup> 2015. This includes standardized pictograms to identify the hazards that are present in manufactured, blended or distributed products for use in the workplace. The GHS standards feature a new numerical system to identify the levels of toxicity of the product.

The risk levels associated with this product are listed in section #2 of the 16 sections included in this guide. The new numbers are arranged on a scale of 1-5 with 1 being a severe hazard and 5 presenting minimal hazard when used under the product's instruction and when in compliance with applicable, local, state and federal guidelines.

- 1 = Severe Hazard**
- 2 = Serious Hazard**
- 3 = Moderate Hazard**
- 4 = Slight Hazard**
- 5 = Minimal Hazard**

*Health Hazards are further defined in categories for all routes of exposure including, pulmonary(inhalation), oral (mouth), dermal (skin), and ocular (eyes).*

*These Hazard Categories and the corresponding warning classifications are:*

- Acute Toxicity (Oral) - [1,2,3,4,5]**
- Acute Toxicity (Dermal) - [1,2,3,4,5]**
- Acute Toxicity (Inhalation) - [1,2,3,4,5]**
- Skin Corrosion/Irritant - [1A , 1B - Corrosion 2,3 - Irritant]**
- Eye Corrosion/Irritant - [1, 2A, 2B]**
- Respirator Sensitization - [1 , 2A, 2B]**
- Skin Sensitization - [1A ,1B, 2]**
- Germ Cell Mutagenicity - [1A, 1B, 2]**
- Carcinogenicity - [1A ,1B, 2]**
- Reproductive Toxicity - Fertility - [1A ,1B, 2]**
- Reproductive Toxicity - Development - [1A ,1B, 2]**
- Specific Target Organ Toxicity - Single Exposure [1, 2, 3]**
- Specific Target Organ Toxicity - Repeat Exposure [1, 2]**

*For more information visit the OSHA website: [www.osha.gov](http://www.osha.gov)*

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**User's Responsibility:** This information is compiled from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their application and to follow safety precautions as may be necessary.

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**Revision R2,** supersedes all previous revisions.