SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form: Mixture
Product name: Dura-Fill; Dura-Shell

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: sealant

1.3. Details of the supplier of the safety data sheet
P&T Products, Inc.
472 Industrial Pkwy.
Sandusky, Ohio 44870 - USA

1.4. Emergency telephone number
No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Carc. 1B H350  Full text of H-phrases: see section 16

2.2. Label elements  GHS-US labelling
Hazard pictograms (GHS-US): 

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H350 - May cause cancer
Precautionary statements (GHS-US): P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P308+P313 - If exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards
Other hazards not contributing to the classification: Risk of thermal burns on contact with molten product.

2.4. Unknown acute toxicity (GHS US)  Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance  Not Applicable

3.2. Mixture
<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extracts (petroleum), heavy paraffinic distillate solvent</td>
<td>(CAS No) 64742-04-7</td>
<td>0.1 – 20</td>
<td>Carc. 1B, H350</td>
</tr>
<tr>
<td>Carbon black</td>
<td>(CAS No) 1333-86-4</td>
<td>0 – 5</td>
<td>Carc. 2, H351*</td>
</tr>
</tbody>
</table>

*Bound, not available to inhale as dust
Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation: Remove victim to fresh air & keep at rest in position comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact: Drench affected area with water for at least 15 minutes.
First-aid measures after eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.
First-aid measures after ingestion: Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: May cause cancer.
Symptoms/injuries after inhalation: Inhalation of vapors may cause respiratory irritation.
Symptoms/injuries after skin contact: Heated product causes burns.
Symptoms/injuries after eye contact: Heated product causes burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: When heated, material emits irritating fumes. Burning produces irritating, toxic and noxious fumes.
Explosion hazard: Product is not explosive.
Reactivity: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions: Do not allow run-off from fire fighting to enter drains/water courses. Exercise caution when fighting any chemical fire.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid all eye and skin contact and do not breathe vapor and mist. Keep upwind.

6.1.1. For non-emergency personnel

Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures: Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment: Stop the flow of material, if this is without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Allow molten material to cool. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid breathing vapors. Avoid contact with skin and eyes. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container closed when not in use.
Incompatible products: Strong oxidizers.
Incompatible materials: Heat sources.
Prohibitions on mixed storage: Keep away from incompatible materials.
Storage area: Store in dry, cool, well-ventilated area.
7.3. Specific end use(s) sealant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Dura-Fill; Dura-Shell</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Extracts (petroleum), heavy paraffinic distillate solvent (64742-04-7)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>OSHA</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

Carbon black (1333-86-4)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>OSHA</th>
<th>ACGIH TWA (mg/m³)</th>
<th>3.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Remark (ACGIH)</td>
<td>Bronchitis</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Avoid creating mist or spray. Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only outdoors or in a well-ventilated area.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Insulated gloves.

Eye protection: Chemical goggles or safety glasses. Contact with hot material - risk of serious burns. Face shield.

Skin and body protection: Long sleeved protective clothing. Foot protection.

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Appropriate self-contained breathing apparatus may be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance: Liquid. Temperatures above. Softening point.

Color: Black dark brown

Odor: Petroleum

Odor threshold: No data available

pH: No data available

Melting point: 65.5 - 121.1 °C (150 - 250 °F)

Freezing point: No data available

Boiling point: > 315.6 °C (> 600 °F)

Flash point: > 204.4 °C (> 400 °F)

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Explosive limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: No data available

Relative density: 1 - 1.9

Relative vapor density at 20 °C: No data available

Density: 8 - 16 lbs/gal

Solubility: No data available

Log Pow: No data available

Log Kow: No data available

Auto-ignition temperature: > 371.1 °C (> 700 °F)

Decomposition temperature: No data available

Viscosity: No data available
9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity No dangerous reactions known.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4. Conditions to avoid None known.

10.5. Incompatible materials Strong oxidizing agents.


SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact; Inhalation

Acute toxicity : Not classified

Carbon black (1333-86-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 8000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 4.6 mg/m³ 4 h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Carbon black (1333-86-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>2B - Possibly carcinogenic to humans, Inhalation of dust</td>
</tr>
<tr>
<td>National Toxicology Program (NTP) Status</td>
<td>Not listed in carcinogenicity class</td>
</tr>
</tbody>
</table>

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Inhalation of vapors may cause respiratory irritation.

Symptoms/injuries after skin contact : Heated product causes burns.

Symptoms/injuries after eye contact : Heated product causes burns.

SECTION 12: Ecological information

12.1. Toxicity No additional information available

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not readily biodegradable.</td>
</tr>
</tbody>
</table>

Carbon black (1333-86-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not readily biodegradable.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential No additional information available

12.4. Mobility in soil No additional information available

12.5. Other adverse effects No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
**Dura-Fill; Dura-Shell**

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**SECTION 14: Transport information**

**Department of Transportation (DOT)**  In accordance with DOT; Not considered a dangerous good for transport regulations

**Additional information**

Other information : No supplementary information available.

**ADR**  No additional information available

**Transport by sea**  No additional information available

**Air transport**  No additional information available

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**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

| Extracts (petroleum), heavy paraffinic distillate solvent (64742-04-7) |  
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Carbon black (1333-86-4) |  
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**15.2. International regulations**

**CANADA**

| Extracts (petroleum), heavy paraffinic distillate solvent (64742-04-7) |  
| Listed on the Canadian DSL (Domestic Substances List) inventory |

| Carbon black (1333-86-4) |  
| Listed on the Canadian DSL (Domestic Substances List) inventory |

**EU-Regulations**

| Extracts (petroleum), heavy paraffinic distillate solvent (64742-04-7) |  
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Carbon black (1333-86-4) |  
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Carc. 1B  H350

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Carc.Cat.2; R45

**National regulations**

| Carbon black (1333-86-4) |  
| Listed on IARC (International Agency for Research on Cancer) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on Taiwan National Chemical Inventory |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory |
| Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC) |

**15.3. US State regulations**

| Carbon black (1333-86-4) |  
| Yes | No | No | No |

| Carbon black (1333-86-4) |  
| U.S. - New Jersey - Right to Know Hazardous Substance List |

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**SECTION 16: Other information**

Indication of changes : Original Document.

04/13/2015  EN (English)  SDS ID: PT_1504002  Page 5/6
Data sources

- ACGIH (American Conference of Government Industrial Hygienists).

Abbreviations and acronyms

- ATE: Acute Toxicity Estimate.
- CAS (Chemical Abstracts Service) number.
- CLP: Classification, Labelling, Packaging.
- EC50: Environmental Concentration associated with a response by 50% of the test population.
- GHS: Globally Harmonized System (of Classification and Labelling of Chemicals).
- LD50: Lethal Dose for 50% of the test population.
- OSHA: Occupational Safety & Health Administration.
- TSCA: Toxic Substances Control Act.

Other information

None.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Carc. 1B</th>
<th>Carcinogenicity, Category 1B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity, Category 2</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
</tbody>
</table>

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

SDS US (GHS HazCom 2012)

SDS prepared by:
The Redstone Group, LLC.
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Suite 206
Dublin, Ohio, USA 43016
614.923.7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.