1 Identification

- **Product identifier**
  - **Trade name:** FlintPatch™
  - **Product code:** 402418 (3 Gallon)

- **Recommended use and restriction on use**
  - **Recommended use:** Adhesive.
  - **Restrictions on use:** See Sections 8 and 10 for further information.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Flam. Liq. 3 H226 Flammable liquid and vapor.
  - Carc. 2 H351 Suspected of causing cancer.
  - STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**
  - ![GHS02](image1.png) ![GHS08](image2.png)

- **Signal word:** Danger

- **Hazard-determining components of labeling:**
  - Asphalt
  - Stoddard solvent
  - Attapulgite (Palygorskite)

- **Hazard statements:**
  - H226 Flammable liquid and vapor.
  - H351 Suspected of causing cancer.
  - H372 Causes damage to the central nervous system through prolonged or repeated exposure.

- **Precautionary statements:**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.

(Cont'd. on page 2)
Trade name: FlintPatch™

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe vapors.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection.
P240 Ground/bond container and receiving equipment.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P270 Do not eat, drink or smoke when using this product.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
P303+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards: There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td></td>
<td>STOT RE 1, H372; Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>12174-11-7</td>
<td>Attagaplite (Palygorskite)</td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td>9004-34-6</td>
<td>Cellulose</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), light arom.</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td></td>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
</tr>
</tbody>
</table>

Additional information:
For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

- Description of first aid measures

After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Water fog / haze
  - Foam
  - Carbon dioxide
  - Gaseous extinguishing agents
  - Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
Trade name: FlintPatch™

· Additional information:
  Eliminate all ignition sources if safe to do so. 
  Cool endangered receptacles with water fog.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures:
  Ensure adequate ventilation.
  Wear protective equipment. Keep unprotected persons away.
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
  Keep away from ignition sources.
  Protect from heat.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:
  Allow to solidify. Pick up mechanically.
  Absorb liquid components with liquid-binding material.
  Send for recovery or disposal in suitable receptacles.

· 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

· Handling
  · Precautions for safe handling:
    Use only in well ventilated areas.
    Avoid splashes or spray in enclosed areas.
  · Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
    Do not spray on a naked flame or any incandescent material.
    Flammable gas-air mixtures may be formed in empty containers/receptacles.
    Emergency cooling must be available in case of nearby fire.
    Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities
  · Storage
    · Requirements to be met by storerooms and receptacles:
      Avoid storage near extreme heat, ignition sources or open flame.
      Provide ventilation for receptacles.
    · Information about storage in one common storage facility:
      Store away from foodstuffs.
      Store away from oxidizing agents.

· Further information about storage conditions: Keep containers tightly sealed.
8 Exposure controls/personal protection

**Control parameters**

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8052-42-4 Asphalt</strong></td>
</tr>
<tr>
<td>REL (USA) Ceiling limit value: 5 mg/m³</td>
</tr>
<tr>
<td>*15-min; See Pocket Guide App. A</td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td>*inhalable fraction; as benzene-soluble aerosol; BEIp</td>
</tr>
<tr>
<td>EL (Canada) Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td>inhalable, IARC 2B</td>
</tr>
<tr>
<td>EV (Canada) Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td>fume, as benzene-soluble aerosol, inhalable</td>
</tr>
<tr>
<td>LMPE (Mexico) Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td>A4, IBEp,*fracción inhalable</td>
</tr>
<tr>
<td><strong>8052-41-3 Stoddard solvent</strong></td>
</tr>
<tr>
<td>PEL (USA) Long-term value: 2900 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>REL (USA) Ceiling limit value: 1800* mg/m³</td>
</tr>
<tr>
<td>*15-min</td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 525 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>EL (Canada) Short-term value: 580 mg/m³</td>
</tr>
<tr>
<td>Long-term value: 290 mg/m³</td>
</tr>
<tr>
<td>EV (Canada) Long-term value: 525 mg/m³</td>
</tr>
<tr>
<td>LMPE (Mexico) Long-term value: 100 ppm</td>
</tr>
<tr>
<td><strong>9004-34-6 Cellulose</strong></td>
</tr>
<tr>
<td>PEL (USA) Long-term value: 15* 5** mg/m³</td>
</tr>
<tr>
<td>*total dust **respirable fraction</td>
</tr>
<tr>
<td>REL (USA) Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td>*total dust **respirable fraction</td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>EL (Canada) Long-term value: 10* 3** mg/m³</td>
</tr>
<tr>
<td>*total dust, **respirable fraction</td>
</tr>
<tr>
<td>EV (Canada) Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>paper fibre, total dust</td>
</tr>
<tr>
<td>LMPE (Mexico) Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

**Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th><strong>8052-42-4 Asphalt</strong></th>
</tr>
</thead>
</table>

(Cont'd. on page 6)
Trade name: FlintPatch™

**BET (USA)**
- Medium: urine
- Time: end of shift at end of workweek
- Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

- Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:
  The usual precautionary measures for handling chemicals should be followed.
  - Keep away from foodstuffs, beverages and feed.
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.
  - **Engineering controls:** No relevant information available.
  - Breathing equipment:
  - Not required under normal conditions of use.
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - For large spills, respiratory protection may be advisable.
  - **Protection of hands:**
  - Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
  - **Eye protection:** Follow OSHA or EU guidelines concerning the use of protective eyewear.
  - **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
  - Avoid release to the environment.
- **Risk management measures** See Section 7 for additional information.

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**

- **Appearance:**
  - Form: Liquid
  - Color: Dark
  - Odor: Petroleum-like
  - Odor threshold: Not determined.
- **pH-value:** Not determined.
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** 149-177 °C (300-351 °F)
- **Flash point:** 40 °C (104 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Auto-ignition (solid, gaseous):** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

(Cont'd. on page 7)
Trade name: FlintPatch™

(Cont’d. of page 6)

- Explosion limits
  - Lower: Not determined.
  - Upper: Not determined.
- Oxidizing properties: Not determined.
- Vapor pressure: Not determined.
- Density: Not determined.
- Relative density: Not determined.
- Vapor density: >4 g/cm³ (>33.38 lbs/gal) (Air = 1)
- Evaporation rate at 25 °C (77 °F): 0.2 (butyl acetate = 1)
- Solubility in / Miscibility with
  - Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Other information No relevant information available.

10 Stability and reactivity

- Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions:
  Flammable liquid and vapor.
  Reacts with oxidizing agents.
  Reacts with strong acids.
  Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- Conditions to avoid: Excessive heat.
- Incompatible materials: Oxidizing agents
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      64742-95-6 Solvent naphtha (petroleum), light arom.
      - Oral LD50 >6800 mg/kg (rat)
      - Dermal LD50 >3400 mg/kg (rab)
      - Inhalative LC50/4h >10.2 mg/l (rat)

(Cont’d. on page 8)
Trade name: FlintPatch™

- Primary irritant effect:
  - On the skin: Slight irritant effect on skin and mucous membranes.
  - On the eye: Slight irritant effect on eyes.
  - Sensitization: Based on available data, the classification criteria are not met.

- Carcinogenic categories

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer):</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4  Asphalt</td>
</tr>
<tr>
<td>12174-11-7  Attapulgite (Palygorskite)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP (National Toxicology Program):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA-Ca (Occupational Safety &amp; Health Administration):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

- Probable route(s) of exposure:
  - Eye contact.
  - Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity):
  - Irritating if inhaled, causing symptoms of coughing and shortness of breath.
  - May cause gastro-intestinal irritation if ingested.

- Repeated dose toxicity: Danger of very serious irreversible effects.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - Carc. 2
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Suspected of causing cancer.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure:
    - Causes damage to the central nervous system through prolonged or repeated exposure.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity The product contains materials that are harmful to the environment.

- Persistence and degradability No relevant information available.

- Bioaccumulative potential: No relevant information available.

- Mobility in soil: No relevant information available.

- Ecotoxicological effects:
  - Remark: Due to mechanical actions of the product (e.g. agglomerations), damages may occur.

- Additional ecological information
  - General notes: Avoid release to the environment.

- Other adverse effects: No relevant information available.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
- DOT: Not regulated. Reclassified as combustible under US DOT regulations. Labeling is only required for single packages ≥119 US gal / 450 L to include Combustible symbol and Proper Shipping Name. UN1999

- ADR, IMDG, IATA

- UN proper shipping name
  - Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

- DOT: Not regulated.
- ADR: 1999 TARS, LIQUID
- IMDG: TARS, LIQUID
- IATA: Tars, liquid

- Transport hazard class(es)
  - DOT: Not regulated.
  - ADR
    - Class: 3 (F1) Flammable liquids
**Trade name:** FlintPatch™

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>3 Flammable liquids</td>
</tr>
<tr>
<td>Label</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
<tr>
<td>DOT</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>ADR, IMDG, IATA</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Warning: Flammable liquids</td>
</tr>
<tr>
<td>Danger code (Kemler)</td>
<td>30</td>
</tr>
<tr>
<td>EMS Number</td>
<td>F-E,S-E</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport/Additional information:</td>
<td>Limited quantity by air: 10 L</td>
</tr>
</tbody>
</table>

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - United States (USA)
  - SARA

  - **Section 302 (extremely hazardous substances):**
    - None of the ingredients are listed.

  - **Section 304 (emergency release notification):**
    - None of the ingredients are listed.

  - **Sections 311/312 (hazardous chemical threshold planning quantity in pounds):**
    - None of the ingredients are listed.

  - **Section 355 (extremely hazardous substances):**
    - None of the ingredients are listed.

  - **Section 313 (Specific toxic chemical listings):**
    - None of the ingredients are listed.

  - **TSCA (Toxic Substances Control Act)**
    - All ingredients are listed.
Trade name: FlintPatch™

- Proposition 65 (California)
  - Chemicals known to cause cancer:
    Reference to Attaulignite is based on unbound respirable particles and is not generally applicable to product as supplied.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
</tr>
<tr>
<td>12174-11-7</td>
<td>Attaulignite (Palygorskite)</td>
</tr>
</tbody>
</table>

- Chemicals known to cause reproductive toxicity for females:
  None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients are listed.

- Carcinogenic categories

  - EPA (Environmental Protection Agency):
    None of the ingredients are listed.

  - IARC (International Agency for Research on Cancer):
    8052-42-4 Asphalt 2B
    12174-11-7 Attaulignite (Palygorskite) 2B

  - NIOSH-Ca (National Institute for Occupational Safety and Health):
    8052-42-4 Asphalt

- Canadian substance listings

  - Canadian Domestic Substances List (DSL):
    All ingredients are listed.

  - Canadian Ingredient Disclosure list (limit 0.1%):
    None of the ingredients are listed.

  - Canadian Ingredient Disclosure list (limit 1%):
    8052-41-3 Stoddard solvent

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision 02/17/2016 / -

- Abbreviations and acronyms:
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
Trade name: **FlintPatch™**

<table>
<thead>
<tr>
<th>PEL: Permissible Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL: Recommended Exposure Limit</td>
</tr>
<tr>
<td>BEI: Biological Exposure Limit</td>
</tr>
<tr>
<td>Flam. Liq. 3: Flammable liquids, Hazard Category 3</td>
</tr>
<tr>
<td>Skin Irrit. 2: Skin corrosion/Irritation, Hazard Category 2</td>
</tr>
<tr>
<td>Carc. 2: Carcinogenicity, Hazard Category 2</td>
</tr>
<tr>
<td>STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3</td>
</tr>
<tr>
<td>STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1</td>
</tr>
<tr>
<td>Asp. Tox. 1: Aspiration hazard, Hazard Category 1</td>
</tr>
</tbody>
</table>

**Sources**

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
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Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com