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

- **1.1 Product identifier**
  - Trade name: **Bar's Leaks® Powder Radiator Stop Leak**
  - Article number: G12BP

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.

- **Application of the substance / the preparation** Sealing

- **1.3 Details of the supplier of the Safety Data Sheet**
  - Manufacturer/Supplier:
    - Bar's Products
    - P.O. Box 187
    - Holly, MI 48442 USA
    - Phone: (810) 603-1321

- **1.4 Emergency telephone number:**
  - ChemTel Inc.
    - (800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008

  ![GHS07]

  Skin Sens. 1  H317  May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - Xi; Sensitising
  - R43: May cause sensitisation by skin contact.

- **Information concerning particular hazards for human and environment:**
  - The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

- **Classification system:**
  - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
  - The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008
    - The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**

  ![GHS07]

(Contd. on page 2)
### Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

**Trade name:** Bar's Leaks® Powder Radiator Stop Leak

- **Signal word** Warning
- **Hazard-determining components of labelling:**
  - Almond shell
- **Hazard statements**
  - H317 May cause an allergic skin reaction.
- **Precautionary statements**
  - **P101** If medical advice is needed, have product container or label at hand.
  - **P102** Keep out of reach of children.
  - **P103** Read label before use.
  - **P280** Wear protective gloves and eye protection.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- **Additional information:** N/A
- **Hazard description:**
- **WHMIS-symbols:**
  - D2B - Toxic material causing other toxic effects

#### NFPA ratings (scale 0 - 4)
- **Health** = 0
- **Fire** = 0
- **Reactivity** = 0

#### HMIS-ratings (scale 0 - 4)
- **Health** = 0
- **Fire** = 0
- **Reactivity** = 0

#### HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

#### 2.3 Other hazards
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
Trade name: Bar's Leaks® Powder Radiator Stop Leak

- **Dissolving components:**
  - Almond shell
    - Xi R43
    - Skin Sens. 1, H317
  - CAS: 497-19-8
  - EINECS: 207-838-8
  - Sodium Carbonate
    - Xi R36
    - Eye Irrit. 2, H319
  - <10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Clean with water and soap.
  - If skin irritation continues, consult a doctor.
- **After eye contact:**
  - Remove contact lenses if worn.
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - Nausea
  - Cramp
  - Thirst
  - Gastric or intestinal disorders
- **Hazards** No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.

- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:
    - Carbon monoxide (CO)
    - Under certain fire conditions, traces of other toxic gases cannot be excluded.

- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation
  Avoid formation of dust.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up:
  Pick up mechanically.
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- 6.4 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

- 7.1 Precautions for safe handling
  Thorough dedusting.
  Ensure good ventilation/exhaustion at the workplace.
  Any unavoidable deposit of dust must be regularly removed.
- Information about fire - and explosion protection: No special measures required.
- 7.2 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.
  Information about storage in one common storage facility:
  Store away from foodstuffs.
  Do not store together with oxidizing and acidic materials.
  Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
  Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  DNELs No further relevant information available.
  PNECs No further relevant information available.
Trade name: Bar's Leaks® Powder Radiator Stop Leak

- **Additional information**: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
  - **Personal protective equipment**:
  - **General protective and hygienic measures**:
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes.
  - **Respiratory protection**: Not required under normal conditions of use.
  - **Protection of hands**: Not required for handling under normal conditions.
  - **Eye protection**: Safety glasses
  - **Body protection**: Not required.
  - **Limitation and supervision of exposure into the environment**
    - No further relevant information available.
  - **Risk management measures**
    - See Section 7 for additional information.
    - No further relevant information available.

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**9 Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance**:
    - **Form**: Tablets
    - **Colour**: Light brown
    - **Odour**: Odourless
    - **Odour threshold**: Not determined
    - **pH-value**: Not applicable
  - **Change in condition**
    - **Melting point/Melting range**: Undetermined
    - **Boiling point/Boiling range**: Undetermined
  - **Flash point**: Not applicable
  - **Flammability (solid, gaseous)**: Not determined
  - **Ignition temperature**: Not determined
  - **Decomposition temperature**: Not determined
  - **Self-igniting**: Product is not self-igniting
  - **Danger of explosion**: Product does not present an explosion hazard
Trade name: Bar's Leaks® Powder Radiator Stop Leak

- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not applicable.
- **Density:** Not determined.
  - Relative density: Not determined.
  - Vapour density: Not applicable.
  - Evaporation rate: Not applicable.
- **Solubility in / Miscibility with water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- **9.2 Other information:** No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
  Reacts with strong acids.
  Reacts with strong oxidizing agents.
  As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- **10.4 Conditions to avoid** Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- **Sensitization:** Sensitizing effect by skin contact is possible by prolonged exposure.
- **Additional toxicological information:**
  When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
Trade name: Bar's Leaks® Powder Radiator Stop Leak

- Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: biodegradable
- 12.3 Bioaccumulative potential: Does not accumulate in organisms
- 12.4 Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes: Not known to be hazardous to water.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects: No further relevant information available.

13 Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- 14.1 UN-Number
  - DOT, ADR, ADN, IMDG, IATA: N/A
- 14.2 UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: N/A
- 14.3 Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class: N/A
- 14.4 Packing group
  - DOT, ADR, IMDG, IATA: N/A
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 05.02.2013
Revision: 05.02.2013

Trade name: Bar's Leaks® Powder Radiator Stop Leak

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- United States (USA)
  - SARA
    - Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    - Section 313 (Specific toxic chemical listings):
      None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  - Proposition 65 (California):

    - Chemicals known to cause cancer:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for males:
      None of the ingredients is listed.
    - Chemicals known to cause developmental toxicity:
      None of the ingredients is listed.

- Carcinogenic Categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

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Trade name: Bar’s Leaks® Powder Radiator Stop Leak

- **OSHA-Ca (Occupational Safety & Health Administration)**
  None of the ingredients is listed.

- **Canada**
  - **Canadian Domestic Substances List (DSL)**
    All ingredients are listed.
  - **Canadian Ingredient Disclosure list (limit 0.1%)**
    None of the ingredients is listed.
  - **Canadian Ingredient Disclosure list (limit 1%)**
    497-19-8 | Sodium Carbonate

- **15.2 Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

### 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.

- **Relevant phrases**
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - R36 Irritating to eyes.
  - R43 May cause sensitisation by skin contact.

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (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
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - WHMIS: Workplace Hazardous Materials Information System (Canada)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)

- **Sources**
  - SDS Prepared by: ChemTel Inc.
  - 1305 North Florida Avenue
  - Tampa, Florida USA 33602-2902
  - Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
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