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

### 1.1 Product identifier
- Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Application of the substance / the mixture:** Plastic Film
- **Uses advised against:** No further relevant information available.

### 1.3 Details of the supplier of the Safety Data Sheet
- **Manufacturer/Supplier:** CertainTeed Corporation
  - 20 Moors Road
  - Malvern, PA 19355
  - 610-893-6000
  - www.certainteed.com
  - CertainTeed-EHS@staint-gobain.com

### 1.4 Emergency telephone number:
- ChemTel Inc.
  - (800)255-3924 (North America)
  - +1 (813)248-0585 (International)
  - 1-300-954-583 (Australia)
  - 0-800-591-6042 (Brazil)
  - 400-120-0751 (China)
  - 000-800-100-4086 (India)
  - 01-800-099-0731 (Mexico)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
- **Classification according to Regulation (EC) No 1272/2008**
  - The product is not classified as hazardous according to OSHA GHS regulations within the United States.
  - The product is not classified as hazardous according to the CLP regulation.

### Additional information:
- Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful.

### 2.2 Label elements
- **Labelling according to Regulation (EC) No 1272/2008**
  - This product does not have a classification according to the CLP regulation.
  - The product is not classified as hazardous according to OSHA GHS regulations within the United States.
  - **Hazard pictograms** Not Regulated
  - **Signal word** Not Regulated
  - **Hazard statements** Not Regulated.
  - **Precautionary statements** Not Regulated.

### 2.3 Other hazards
- **There are no other hazards not otherwise classified that have been identified.**

(Cont'd. on page 2)
Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**

  **Components:**
  
  | CAS: 25038-54-4 | poly[imino(1-oxo-1,6-hexanediyl)] | Proprietary%
  | EC number: 607-506-6 |

  **Additional information:**
  For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **After inhalation:**
    Unlikely route of exposure.
    Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:**
    Generally the product does not irritate the skin.
    Wash with soap and water.
    If skin irritation is experienced, 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:**
    Unlikely route of exposure.
    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**
  May cause gastro-intestinal irritation if ingested.

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

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - Suitable extinguishing agents:
    Carbon dioxide
    Fire-extinguishing powder
    Foam
    Water haze or fog
  - For safety reasons unsuitable extinguishing agents: Water with full jet

- **5.2 Special hazards arising from the substance or mixture**
SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  Use personal protective equipment as required.
- **6.2 Environmental precautions** No special measures required.
- **6.3 Methods and material for containment and cleaning up**
  Pick up mechanically.
  Dispose unusable material as waste according to item 13.
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Requirements to be met by storerooms and receptacles:**
    Storage area should be dry and well-ventilated.
    Avoid storage near extreme heat, ignition sources or open flame.
  - **Information about storage in one common storage facility:**
    Store away from oxidisers, strong acids, strong bases.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **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.
- **8.2 Exposure controls**
  - **Engineering measures** Provide adequate ventilation.
  - **General protective and hygienic measures:**
    The usual precautionary measures are to be adhered to when handling chemicals.
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

| (Cont’d. from page 3) |

Avoid breathing dust.
- **Respiratory protection:**
  Use respiratory protection when grinding or cutting material.
  An EU approved dust respirator should be used for operations generating dust.
- **Protection of hands:** Not required under normal conditions of use.
- **Eye protection:** Follow OSHA or EU guidelines concerning the use of protective eyewear.
- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment:** No special requirements.
- **Risk management measures:** No special requirements.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Appearance**
  - Form: Solid
  - Colour: According to product specification
  - Odour: Odourless
  - Odour threshold: Not determined.
- **pH-value:** Not applicable.
- **Melting point/freezing point:** 220-223 °C (428-433,4 °F)
- **Initial boiling point and boiling range:** Not determined.
- **Flash point:** >220 °C (>428 °F)
- **Flammability (solid, gas):** Product is not flammable.
- **Auto/Self-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits**
  - Lower: Not determined.
  - Upper: Not determined.
- **Oxidising properties**
  - Non-oxidising.
- **Vapour pressure:** Not determined.
- **Density**
  - Relative density: 1.05-1.25
  - Vapour density: Not applicable.
  - Evaporation rate: Not applicable.
- **Solubility in / Miscibility with water:** Negligible
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity**
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.

(Cont’d. on page 5)
SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.
· 10.2 Chemical stability Stable under normal temperatures and pressures.
· 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 and alkali.
  Reacts with strong oxidising agents.
  Toxic fumes may be released if heated above the decomposition point.
· 10.4 Conditions to avoid Excessive heat.
· 10.5 Incompatible materials Oxidisers, strong bases, strong acids
· 10.6 Hazardous decomposition products
  Carbon monoxide and carbon dioxide
  Ammonia
  Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
· Acute toxicity: Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification: None.
· Primary irritant effect
· Skin corrosion/irritation: Based on available data, the classification criteria are not met.
· Serious eye damage/irritation: Based on available data, the classification criteria are not met.
· Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
· Carcinogenic categories
· IARC (International Agency for Research on Cancer):
  None of the ingredients are listed.
· Probable routes of exposure: Skin contact.
· Germ cell mutagenicity: Based on available data, the classification criteria are not met.
· Carcinogenicity: Based on available data, the classification criteria are not met.
· 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: Based on available data, the classification criteria are not met.
· Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity: No further relevant information available.
Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
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.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Recommendation
Smaller quantities can be disposed of with household waste.
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 packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information
14.1 UN-Number
DOT, ADR/RID/ADN, IMDG, IATA Not Regulated
14.2 UN proper shipping name
DOT, ADR/RID/ADN, IMDG, IATA Not Regulated
14.3 Transport hazard class(es)
DOT, ADR/RID/ADN, IMDG, IATA Class Not Regulated
14.4 Packing group
DOT, ADR/RID/ADN, IMDG, IATA Not Regulated
14.5 Environmental hazards:
Marine pollutant: No
14.6 Special precautions for user Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

SECTION 15: Regulatory information
(Cont'd. on page 7)
Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

- **15.1 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 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.
  - **Proposition 65 (California):**
    - **Chemicals known to cause cancer:**
      
      None of the ingredients are listed.
    - **Chemicals known to cause developmental toxicity for females:**
      
      None of the ingredients are listed.
    - **Chemicals known to cause developmental toxicity for males:**
      
      None of the ingredients are listed.
    - **Chemicals known to cause developmental toxicity:**
      
      None of the ingredients are listed.
    - **EPA (Environmental Protection Agency)**
      
      None of the ingredients are listed.
    - **IARC (International Agency for Research on Cancer)**
      
      None of the ingredients are listed.
    - **Canadian Domestic Substances List (DSL) (Substances not listed)**
      
      All ingredients are listed.
  - **Other regulations, limitations and prohibitive regulations**
    - **Substances of very high concern (SVHC) according to REACH, Article 57**
      
      None of the ingredients are listed.
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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.

- **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
Trade name: MemBrain Continuous Air Barrier & Smart Vapor Retarder

| IATA: International Air Transport Association |
| GHS: Globally Harmonised System of Classification and Labelling of Chemicals |
| EINECS: European Inventory of Existing Commercial Chemical Substances |
| ELINCS: European List of Notified Chemical Substances |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) |
| DNEL: Derived No-Effect Level (REACH) |
| PNEC: Predicted No-Effect Concentration (REACH) |
| LC50: Lethal concentration, 50 percent |
| LD50: Lethal dose, 50 percent |
| PBT: Persistant, Bio-accumulative, Toxic |
| SVHC: Substances of Very High Concern |
| vPvB: very Persistent and very Bioaccumulative |

**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:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com