1. Identification

Product identifier: Minimal Expansion Foam

Other means of identification:
- Product Code: No. 14077 (Item# 1004808)
- Recommended use: Foam insulator and sealant
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:
- Company name: CRC Industries, Inc.
- Address: 885 Louis Dr. Warminster, PA 18974 US
- Telephone:
  - General Information: 215-674-4300
  - Technical Assistance: 800-521-3168
  - Customer Service: 800-272-4620
  - 24-Hour Emergency (CHEMTREC): 800-424-9300 (US)
- Website: www.crcindustries.com

2. Hazard(s) identification

Physical hazards
- Flammable aerosols: Category 1
- Gases under pressure: Liquefied gas

Health hazards
- Acute toxicity, inhalation: Category 4
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2
- Sensitization, respiratory: Category 1
- Sensitization, skin: Category 1
- Carcinogenicity: Category 2
- Specific target organ toxicity, single exposure: Category 3 respiratory tract irritation
- Specific target organ toxicity, repeated exposure: Category 1

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger

Hazard statement: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement

Prevention
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist/vapors. Do not apply while equipment is energized. Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protection clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.

Storage
Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal
Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>chlorinated paraffins</td>
<td></td>
<td>63449-39-8</td>
<td>10 - 30</td>
</tr>
<tr>
<td>polymeric diphenylmethane diisocyanate</td>
<td></td>
<td>9016-87-9</td>
<td>10 - 30</td>
</tr>
<tr>
<td>4,4-diphenylmethane diisocyanate (M.D.I.)</td>
<td></td>
<td>101-68-8</td>
<td>7 - 13</td>
</tr>
<tr>
<td>isobutane</td>
<td></td>
<td>75-28-5</td>
<td>5 - 10</td>
</tr>
<tr>
<td>tris(2-chloroisopropyl) phosphate</td>
<td></td>
<td>13674-84-5</td>
<td>5 - 10</td>
</tr>
<tr>
<td>dimethyl ether</td>
<td></td>
<td>115-10-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>propane</td>
<td></td>
<td>74-98-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>soybean oil</td>
<td></td>
<td>8001-22-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2,2'-dimorpholinyldiethyl ether</td>
<td></td>
<td>6425-39-4</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important symptoms/effects, acute and delayed
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General information</strong></td>
<td>Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.</td>
</tr>
<tr>
<td><strong>5. Fire-fighting measures</strong></td>
<td>Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing media: Water. Do not use water jet as an extinguisher, as this will spread the fire. Specific hazards arising from the chemical: Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene. Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fire-fighting equipment/instructions: In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes. General fire hazards: Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.</td>
</tr>
<tr>
<td><strong>6. Accidental release measures</strong></td>
<td>Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will sediment in water systems. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.</td>
</tr>
</tbody>
</table>
| **7. Handling and storage** | Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label. Conditions for safe storage, including any incompatibilities: Level 1 Aerosol. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/personal protection

Occupational exposure limits
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)</td>
<td>Ceiling</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>propane (CAS 74-98-6)</td>
<td>PEL</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td>soybean oil (CAS 8001-22-7)</td>
<td>PEL</td>
<td>5 mg/m³ Respirable fraction.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)</td>
<td>TWA</td>
</tr>
<tr>
<td>isobutane (CAS 75-28-5)</td>
<td>STEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)</td>
<td>Ceiling</td>
</tr>
<tr>
<td>isobutane (CAS 75-28-5)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>0.005 ppm</td>
</tr>
<tr>
<td>propane (CAS 74-98-6)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>800 ppm</td>
</tr>
<tr>
<td>soybean oil (CAS 8001-22-7)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ Total mist</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. Workplace Environmental Exposure Level (WEEL) Guides Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethyl ether (CAS 115-10-6)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin protection
Hand protection
Wear protective gloves such as: Nitrile. Neoprene. Rubber gloves.

Other
Wear appropriate chemical resistant clothing.
If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Wear appropriate thermal protective clothing, when necessary.

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance
- Physical state: Liquid.
- Form: Aerosol.
- Color: Amber.
- Odor: Solvent.
- Odor threshold: Not available.
- pH: Not available.
- Melting point/freezing point: 98.6 °F (37 °C) estimated
- Initial boiling point and boiling range: Not available.
- Flash point: 396 °F (202.2 °C) estimated
- Evaporation rate: Moderate.
- Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Vapor pressure: 1298.4 hPa estimated
- Vapor density: > 1 (air = 1)
- Relative density: 1.05
- Solubility(ies)
  - Solubility (water): Not available.
  - Partition coefficient (n-octanol/water): Not available.
- Auto-ignition temperature: Not available.
- Decomposition temperature: Not available.
- Viscosity: Not available.
- Percent volatile: 6 % estimated

10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene. Contact with incompatible materials.

Incompatible materials: Strong bases. Oxidizing agents.

11. Toxicological information

Information on likely routes of exposure

**Inhalation**
Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**
Causes skin irritation. May cause an allergic skin reaction.

**Eye contact**
Causes serious eye irritation.

**Ingestion**
Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity**
Harmful if inhaled.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>0.38 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt;= 5000 mg/kg</td>
</tr>
<tr>
<td>dimethyl ether (CAS 115-10-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>164000 ppm, 4 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>308.5 mg/l, 4 hours</td>
</tr>
<tr>
<td>isobutane (CAS 75-28-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>142500 ppm, 4 hours</td>
</tr>
<tr>
<td>polymeric diphenylmethane diisocyanate (CAS 9016-87-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt;= 10000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>490 mg/m3, 4 hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt;= 2000 mg/kg</td>
</tr>
<tr>
<td>tris(2-chloroisopropyl) phosphate (CAS 13674-84-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>&gt; 4.6 mg/l</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization**
May cause an allergic skin reaction.
Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

4,4-diphenylmethane disocyanate (M.D.I.) (CAS 101-68-8) 3 Not classifiable as to carcinogenicity to humans.
chlorinated paraffins (CAS 63449-39-8) 2B Possibly carcinogenic to humans.
polymeric diphenylmethane diisocyanate (CAS 9016-87-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components | Species | Test Results
--- | --- | ---
chlorinated paraffins (CAS 63449-39-8) | Aquatic Fish | LC50 Bluegill (Lepomis macrochirus) > 0.1 mg/l, 96 hours

Persistence and degradability
No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)
dimethyl ether 0.1
isobutane 2.76
propane 2.36

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

Hazardous waste code
Not regulated.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
UN number UN1950
UN proper shipping name Aerosols, flammable, Limited Quantity
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) 2.1
Packing group Not applicable.
**15. Regulatory information**

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
  - Not regulated.

- **SARA 304 Emergency release notification**
  - Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
- polymeric diphenylmethane diisocyanate (CAS 9016-87-9)

CERCLA Hazardous Substance List (40 CFR 302.4)
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
- isobutane (CAS 75-28-5)
- propane (CAS 74-98-6)

CERCLA Hazardous Substances: Reportable quantity
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8) 5000 LBS
- isobutane (CAS 75-28-5) 100 LBS
- propane (CAS 74-98-6) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- dimethyl ether (CAS 115-10-6)
- isobutane (CAS 75-28-5)
- propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)
- Not regulated.

Food and Drug Administration (FDA)
- Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
- Classified hazard categories
  - Flammable (gases, aerosols, liquids, or solids)
  - Gas under pressure
  - Acute toxicity (any route of exposure)
  - Skin corrosion or irritation
  - Serious eye damage or eye irritation
  - Respiratory or skin sensitization
  - Carcinogenicity
  - Specific target organ toxicity (single or repeated exposure)

- SARA 302 Extremely hazardous substance
  - Not listed.

- SARA 311/312 Hazardous chemical
  - Yes

- SARA 313 (TRI reporting)
  - Chemical name | CAS number | % by wt.
  - 4,4-diphenylmethane diisocyanate (M.D.I.) | 101-68-8 | 7 - 13
  - polymeric diphenylmethane diisocyanate | 9016-87-9 | 10 - 30

US state regulations

US. New Jersey Worker and Community Right-to-Know Act
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
- dimethyl ether (CAS 115-10-6)
- isobutane (CAS 75-28-5)
- polymeric diphenylmethane diisocyanate (CAS 9016-87-9)
- propane (CAS 74-98-6)

US. Massachusetts RTK - Substance List
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
- dimethyl ether (CAS 115-10-6)
- isobutane (CAS 75-28-5)
- propane (CAS 74-98-6)
- soybean oil (CAS 8001-22-7)

US. Pennsylvania Worker and Community Right-to-Know Law
- 4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
- dimethyl ether (CAS 115-10-6)
isobutane (CAS 75-28-5)
propane (CAS 74-98-6)
soybean oil (CAS 8001-22-7)

**US. Rhode Island RTK**
4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
dimethyl ether (CAS 115-10-6)
propane (CAS 74-98-6)
soybean oil (CAS 8001-22-7)

**California Proposition 65**
California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**
4,4-diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)
chlorinated paraffins (CAS 63449-39-8)
isobutane (CAS 75-28-5)
polymeric diphenylmethane diisocyanate (CAS 9016-87-9)
tris(2-chloroisopropyl) phosphate (CAS 13674-84-5)

**Volatile organic compounds (VOC) regulations**

**EPA**
- VOC content (40 CFR 51.100(s))
  - 13.1 %
- Consumer products (40 CFR 59, Subpt. C)
  - Not regulated

**State**
- Consumer products
  - Not regulated
- VOC content (CA)
  - 13.1 %
- VOC content (OTC)
  - 13.1 %

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
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</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>02-13-2015</th>
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<tbody>
<tr>
<td>Revision date</td>
<td>01-25-2019</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Allison Yoon</td>
</tr>
<tr>
<td>Version #</td>
<td>03</td>
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Revision information

This document has undergone significant changes and should be reviewed in its entirety.