SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : Insul-SHIELD® Unfaced Boards, Insul-SHIELD® FSK-Faced Boards, Insul-SHIELD® Black Mat Boards, Insul-SHIELD® Black-Faced Rolls

Manufacturer or supplier's details
Company : Johns Manville
Address : P.O. Box 5108
Denver, CO USA 80127
Telephone : +1-303-978-2000
Emergency telephone number : +1-800-424-9300 (CHEMTREC)

Company : Johns Manville Canada Inc.
Address : 5301 42 Avenue
Innisfail, AB Canada T4G 1A2
Telephone : +1-303-978-2000
Emergency telephone number : +1-800-424-9300 (CHEMTREC)

Prepared by : productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Other hazards
Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact.
Trace amounts of formaldehyde may be released when contacted with moisture, including humidity. This release is most prevalent in conditions of high heat and humidity.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Glass Fiber Product.

Hazardous components
Non-hazardous according to 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015), when used as intended.

Relevant ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>non-biopersistent (biosoluble) glass fibers</td>
<td>Not Assigned</td>
<td>&gt;= 70 - &lt;= 90 %</td>
</tr>
<tr>
<td>cured urea extended phenol-formaldehyde resin</td>
<td>Not Assigned</td>
<td>&gt;= 10 - &lt;= 20 %</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice : Get medical attention if symptoms occur.

If inhaled : Move to fresh air.
             If symptoms persist, call a physician.

In case of skin contact : Take off all contaminated clothing immediately.
                         If on skin, rinse well with water.
                         Get medical attention if irritation develops and persists.

In case of eye contact : In case of eye contact, remove contact lens and rinse
                        immediately with plenty of water, also under the eyelids, for at
                        least 15 minutes.
                        If eye irritation persists, consult a specialist.

If swallowed : If symptoms persist, call a physician.
               Rinse mouth with water to remove dust or fibers and drink
               plenty of water to help reduce irritation.

Most important symptoms and effects, both acute and delayed : None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local
                              circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.

Methods and materials for containment and cleaning up : Take up mechanically.
                                                      Pick up and arrange disposal without creating dust.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : For personal protection see section 8.
                         Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Keep in a dry, cool place.
Materials to avoid: No materials to be especially mentioned.

Further information on storage stability: Stable at normal ambient temperature and pressure.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>non-biopersistent (biosoluble) glass fibers</td>
<td>Not Assigned</td>
<td>TWA (fibres)</td>
<td>1 fibres per cubic centimeter</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (inhalable fraction)</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Inert or Nuisance Dust, Particulates Not Otherwise Regulated (PNOR)</td>
<td>Not Assigned</td>
<td>PEL (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA</td>
</tr>
</tbody>
</table>

As a member of the North American Insulation Manufacturers Association (NAIMA), JM subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations. For more information, see NAIMA’s Health and Safety Reference Library (website: http://insulationinstitute.org/tools-resources/resource-library/health-safety/) to find the Product Stewardship Program Pocket Folder (N052) and other Fact Sheets.

**Personal protective equipment**

**Respiratory protection**: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection**

**Remarks**: For prolonged or repeated contact use protective gloves.

**Eye protection**: Safety glasses

**Skin and body protection**: Long sleeved clothing

**Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: solid
Colour: various, yellow, black
Odour: slight
Odour Threshold: No data available
pH: Not applicable
Melting point/freezing point: Not applicable
Initial boiling point and boiling range: Not applicable
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability (solid, gas): No data available
Upper explosion limit: Not applicable
Lower explosion limit: Not applicable
Vapour pressure: Not applicable
Relative vapour density: Not applicable
Relative density: No data available
Density: Not applicable
Solubility(ies)
  Water solubility: Not applicable
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Thermal decomposition: Not applicable
Viscosity
  Viscosity, dynamic: Not applicable
  Viscosity, kinematic: Not applicable

### SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions:
  Stable under recommended storage conditions.
  No hazards to be specially mentioned.
SECTION 11. TOXICOLOGICAL INFORMATION

Respiratory sensitisation: Not relevant

IARC  
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA  
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP  
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Aspiration toxicity  
Not relevant

Further information

Product:  
Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact. Trace amounts of formaldehyde may be released when contacted with moisture, including humidity. This release is most prevalent in conditions of high heat and humidity.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity  
No data available

Persistence and degradability  
No data available

Bioaccumulative potential  
No data available

Mobility in soil  
No data available

Other adverse effects

Product:  
Ozone-Depletion Potential  
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Disposal of residual product: Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

**International transport regulations**

**Land transport**
US DOT: Not classified as a dangerous good under transport regulations
TDG: Not classified as a dangerous good under transport regulations

**Sea transport**
IMDG: Not classified as a dangerous good under transport regulations

**Air transport**
IATA/ICAO: Not classified as a dangerous good under transport regulations

SECTION 15. REGULATORY INFORMATION

**TSCA list**
TSCA - 5(a) Significant New Use Rule List of Chemicals: Not relevant

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**
This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**
This material does not contain any components with a section 304 EHS RQ.

**Clean Air Act**
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
US State Regulations

US. Massachusetts Commonwealth’s Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)
No components are subject to the Massachusetts Right to Know Act.

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)
non-biopersistent (biosoluble) glass fibers Not Assigned

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

⚠️ WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:
TSCA : On the inventory, or in compliance with the inventory
DSL : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information
Revision Date : 01/31/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.