Fire Resistant Mineral Wool Insulation

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name: MinWool-1200® Industrial Board, MinWool-1200® Flexible Batt, MinWool-1200® Pipe, MinWool-1200® Pipe and Tank Wrap, MinWool® Sound Attenuation Fire Batt (SAFB), MinWool® Safing, MinWool® Curtainwall, MinWool-1200® Field Formed Pipe Insulation, MinWool-1200® Preformed Pipe Insulation, MinWool-1200® Metal Mesh Blanket, MinWool-1200® Precision Cut Pipe Insulation, MinWool-1200® Mitered Fittings, MinWool® Deck Plug Fire Stop, MinWool-1200® Lamella Tank Wrap, MinWool® Marine Board, MinWool® Water & Fire Block

Manufacturer or supplier's details

Company: Johns Manville
Address: P.O. Box 5108
Denver, CO USA 80127
Telephone: +1 303-978-2000 8:00AM-5:00PM M-F
Emergency telephone number: 1-800-424-9300 (Chemtrec, in English)

Prepared by: productssafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
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
Mineral wool product

Hazardous components
Non-hazardous according to 29 CFR 1910.1200, 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>mineral fibers</td>
<td>Not Assigned</td>
<td>&gt;= 95 - &lt;= 100 %</td>
</tr>
<tr>
<td>Cured urea extended phenol-formaldehyde resin</td>
<td>Not Assigned</td>
<td>&gt;= 0 - &lt;= 5 %</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: 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: 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.
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>Nuisance dust</td>
<td>Not Assigned</td>
<td>TWA (Total particulate)</td>
<td>15 mg/m3 OSHA TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m3 OSHA TWA (Respirable fraction)</td>
<td></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: natural colour

Odour: not significant

Odour Threshold: No data available

pH: Not applicable

Melting point/range: > 2,000 °F
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Print Date 04/05/2017

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 decomposition if stored and applied as directed.
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.
Conditions to avoid: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

IARC
  Group 3: Not classifiable as to its carcinogenicity to humans
  mineral fibers
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.

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:
Additional ecological information: Due to the properties of the product, a hazard to the environment may not be expected.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Disposal of residual product: In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International transport regulations
These products are not classified as dangerous goods according to international transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list
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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.
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).

California Prop 65
WARNING! This product contains a chemical known to the State of California to cause cancer.
formaldehyde 50-00-0

The components of this product are reported in the following inventories:
TSCA : On TSCA Inventory
DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION

Further information
Revision Date : 04/05/2017

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.