SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name: Spin-Glas® WH XG, Range-Glas® XG

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)

Recommended use of the chemical and restrictions on use
Restrictions on use: For professional users only.
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.

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;= 80 - &lt;= 100 %</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>Glass fibers shown to be biosoluble</td>
<td>Not Assigned</td>
<td>1 fibres per cubic centimeter</td>
<td>ACGIH</td>
<td></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 OSHA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m³ OSHA</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: white

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 : Stable under normal conditions.
Possibility of hazardous reactions : No decomposition if stored normally.
Conditions to avoid : No data available
Hazardous decomposition products: None under normal conditions of use. During initial heat-up to operating temperatures above 450 °F (232 °C), an acrid odor and some smoke may be given off as the binders used in the fiberglass insulation begin to decompose. During these conditions, adequate ventilation should be provided.

SECTION 11. TOXICOLOGICAL INFORMATION

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.

Further information

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.

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: 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: 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
USDOT: 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

SARA 311/312 Hazards: No SARA Hazards

SARA 302: This material does not contain any components with a section 302 EHS TPQ.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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  

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
Under normal conditions of use, this product does not expose you to any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

⚠️ WARNING: When exposed to elevated operating temperatures (\(\geq 450 \, ^\circ F\)), this product can expose you to chemicals including acetaldehyde, formaldehyde, benzene, pyridine, which is/are known to the State of California to cause cancer, and benzene, toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. 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 : 03/19/2019

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.