Silicone Products Regulatory Information Overview

Thank you for your interest in Saint-Gobain’s silicone tubing, hose, manifolds, TAs, profiles, and molded products and services that we provide. The information contained in this overview applies to translucent products manufactured at the Saint-Gobain Beaverton, Michigan facility.

Please be advised that Saint-Gobain Beaverton’s silicone products are manufactured from 100% synthetic virgin silicone. No plant or animal products, or by-products, are used in the manufacture of, nor intentionally added to, our silicone products.

Saint-Gobain Beaverton’s silicone products are manufactured in an ISO 14644 Class 7 clean room facility from USP 88 Class VI approved raw materials in accordance with cGMP principles.

Country of Origin
Saint-Gobain Beaverton’s silicone products are manufactured in the U.S.A.

Animal Derivative Content Free - Tallow/BSE/TSE
Please be advised that we have found no instance of the use of bovine or other animal derived materials used in the manufacture of any Saint-Gobain Beaverton silicone product as defined in specification EMEA 410.01 Rev.3.

Metals with Safety Concern (EMEA/CHMP/SWP/4446/2000)
Saint-Gobain Beaverton’s silicone product formulations were tested by ICP-MS to a sensitivity of 1 ppm. The quantity of Metals with Safety Concerns present in these formulations is deemed below the Parenteral Exposure limits given in EMEA/CHMP/SWP/4446/2000 which establishes:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Metals</th>
<th>Parenteral Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals of significant safety concern</td>
<td>Class 1A Pt, Pd</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Class 1B* Ir, Rh, Ru, Os</td>
<td>1 ppm</td>
<td></td>
</tr>
<tr>
<td>Class 1C Mo, Ni, Cr, V</td>
<td>2.5 ppm</td>
<td></td>
</tr>
<tr>
<td>Metals with low safety concern</td>
<td>Class 2 Cu, Mn</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Metals with minimal safety concern</td>
<td>Class 3 Fe, Zn</td>
<td>130 ppm</td>
</tr>
</tbody>
</table>

*While Class 1B is a subclass limit of 1 ppm, based on the formulation, supplier information, the metals in this subclass testing below the sensitivity of the test and the fact that these metals are not, and will not be, used in the manufacture of, or intentionally added to, Saint-Gobain Beaverton silicone products, we would not expect the total of these materials to be present in quantities greater than 1 ppm.

Conflict Minerals
Please be advised that we have found no instance of the use of conflict minerals as specified by the Dodd-Frank Act in the manufacture of Saint-Gobain Beaverton’s silicone products.

Restriction of Hazardous Substances (RoHS) & Coalition of Northeastern Governors (CONEG)
Saint-Gobain, in Compliance with the European Union restriction on the use of certain Hazardous Substances (RoHS) (directives 2011/65/EU, 2002/96/EC, 2003/11/EC), hereby certifies that the following
materials or substances are not, and will not be, used in the manufacture of, or intentionally added to Saint-Gobain Beaverton silicone products:

Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (CrVI), and two Bromine containing Flame Retardants – PBB (Polybrominated Biphenyls) and PBDE (Polybrominated Diphenyl Ethers) that are in concentrations greater than 0.1% by mass (1,000 ppm). Cadmium (CrVI) concentration limits not to be greater than 0.01% (100 ppm). In addition, we would not expect the total of these materials to exceed 100 ppm (0.01% by mass) individually or for the total incidental content per CONEG requirement limits.

None of the currently listed RoHS exemptions are used in the manufacture of silicone products.

**European Directive 2003/11/EC**
Saint-Gobain Beaverton’s silicone products conform to European Directive 2003/11/EC of 6 February 2003 amending 76/769/EEC of 27 July 1976. We do not use polychlorinated biphenyls (PCB), polychlorinated terphenyls (PCT), vinyl chloride, pentabromo-diphenyl ethers (pentaBDE), octabromo-diphenyl ethers (OctaBDE), or decabromo-diphenyl ethers (decaBDE) in the manufacture or formulation of these products.

**Phthalates**
Phthalates are not, and will not be, used in the manufacture of, nor intentionally added to, the process or raw materials of Saint-Gobain Beaverton silicone products. Furthermore, based on our knowledge of the products, formulations and processes, we would not expect any phthalates to be present as process impurities above corresponding 0.1% threshold limits.

**Perfluorinated Compounds**
Perfluorooctanoic acid (PFOA) and perfluorooctane sulfanates (PFOS) are not used in the formulation or manufacture of Saint-Gobain Beaverton silicone products.

**Ozone Depleting Chemicals (ODCs)**
We do not use Class I or Class II ODCs listed in the Resolution 2037/2000/EC in the manufacture or formulation of Saint-Gobain Beaverton silicone products.

**BPA**
Saint-Gobain Beaverton silicone products do not have Bisphenol A introduced in the process or the raw materials.

**Melamine**
Melamine is not, and will not, be used in the manufacture of, nor intentionally added to, the process for any of our Saint-Gobain Beaverton silicone products.

**Latex, Gluten, and Allergens**
Please be advised that all Saint-Gobain Beaverton silicone products contain neither latex nor any form of latex material. Nor does the manufacturing process or equipment utilize or contact latex materials. In addition, the materials used in Saint-Gobain Beaverton silicone products do not contain other allergens –
as defined by the FDA as milk, eggs, fish, crustaceans, soy, wheat or other gluten containing sources, peanuts and tree nuts – either in the manufacture or the formulation. Furthermore, there is no instance where these allergens come in contact with the finished product during any step of the manufacturing process.

**REACH**

Saint-Gobain has met the requirements set forth by REACH legislation as it relates to pre-registration of certain substances by December 1, 2008. We will continue to monitor regulatory activity in this area to be certain that we stay abreast of all requirements and comply as needed.

Saint-Gobain complies with provisions of REACH where applicable to our products. Saint-Gobain Beaverton silicone products qualify as articles as defined by REACH legislation. Furthermore, no substances are intentionally released as a result of using our products in the intended manner.

Substances of Very High Concern (SVHC) as established by the European Union/ECHA Candidate list, are not intentionally added to, or formulated in, Saint-Gobain Beaverton silicone products or their base resins. We will continue to monitor regulatory activity in this area to be certain that we stay abreast of all requirements and comply as needed. Updated SVHC compliance statements can be obtained from Saint-Gobain Beaverton silicone product suppliers as necessary.

**Shelf Life**

The shelf life of Saint-Gobain Beaverton silicone products is 5 years from date of manufacture, provided the product is packaged in the original unopened packaging and is stored under ambient temperature and humidity conditions.

**Use of this Regulatory Information Overview**

The information in this Regulatory Information Overview is provided for the purpose of communicating regulatory compliance of Saint-Gobain Beaverton silicone tubing and hose products as shipped from the Saint-Gobain Beaverton location. Ultimately, customers must make their own determination that use of this product is safe, lawful, and technically suitable for their intended applications.

Saint-Gobain Beaverton has not run any analysis for concentration levels for the regulatory compliances listed above but has relied on raw material suppliers for this information. Based upon supplier information, we would expect that any trace amounts of the chemicals contained in the above compliance statements to be at concentrations levels that would be far below the allowable concentration limits.

Respectfully,

Katherine Doyle
Quality Assurance Engineer
Saint-Gobain – Beaverton, MI