

Safety Data Sheet SQT-221 Date of issue: 06/15/2015 Version: 1.0

| SECTION 1: Identification of the s   | ubstance/mixture and of the company/undertaking  |
|--|--|
| 1.1. Product identifier  |  |
| Product form   | : Substance  |
| Physical state   | : Liquid   |
| Substance name   | : SILANOL-TRIMETHYLSILYL MODIFIED Q RESIN, 60% in toluene  |
| Product code   | : SQT-221  |
| Synonyms   | : MQ RESIN; TRIMETHYLSILYL MODIFIED POLYSILICIC ACID   |
| Chemical family  | : SILICONE RESIN   |
| 1.2. Relevant identified uses of the su  | ubstance or mixture and uses advised against   |
| Use of the substance/mixture   | : Chemical intermediate<br>For research and industrial use only  |
| 1.3. Details of the supplier of the safe   | ety data sheet   |
| <b>GELEST, INC.</b><br>11 East Steel Road<br>Morrisville, PA 19067<br><b>USA</b><br>T 215-547-1015 - F 215-547-2484 - (M-F): 8:<br>info@gelest.com | 00 AM - 5:30 PM EST  |
| 1.4. Emergency telephone number  |  |
| Emergency number   | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)  |
| <b>SECTION 2: Hazards identification</b>   | n  |
| 2.1. Classification of the substance o   | r mixture  |
| Classification (GHS-US)  |  |
| Flam. Liq. 2 H225  |  |
| Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling   |  |
| Hazard pictograms (GHS-US)   | :<br>GHS02   |
| Signal word (GHS-US)   | : Danger   |
| Hazard statements (GHS-US)   | : H225 - Highly flammable liquid and vapor   |
| Precautionary statements (GHS-US)  | <ul> <li>P210 - Keep away from heat, hot surfaces, ignition sources, open flames, sparks No smoking P233 - Keep container tightly closed</li> <li>P240 - Ground/bond container and receiving equipment</li> <li>P241 - Use explosion-proof ventilating equipment</li> <li>P242 - Use only non-sparking tools</li> <li>P243 - Take precautionary measures against static discharge</li> <li>P280 - Wear eye protection, face protection, face shield, protective clothing, protective gloves</li> <li>P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower</li> <li>P370+P378 - In case of fire: Use Water spray, dry extinguishing powder, foam, carbon dioxide (CO2) to extinguish</li> <li>P403+P235 - Keep in a cool place</li> <li>P501 - Dispose of contents/container to licensed waste disposal facility.</li> </ul> |
| 2.3. Other hazards   |  |
| No additional information available  |  |
| 2.4. Unknown acute toxicity (GHS US  |  |
| No data available  |  |
| SECTION 3: Composition/informa   | tion on ingredients  |
| 3.1. Substance   |  |
| Substance type   | : Multi-constituent  |
| ···· · · · · · · · · · · · · · · · · ·   |  |

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| Name: SILANOL-TRIMETHYLSILYL MOCAS No: 56275-01-5 |                     | DIFIED Q RESIN, 60% in toluene |  |  |
|---|---------------------|--------------------------------|--|--|
| Name  | Product identifier  | %                              | Classification (GHS-US)  |  |
| Silanol Modified Q Silica Resin                   | (CAS No) 56275-01-5 | > 60                           | Not classified   |  |
| Toluene   | (CAS No) 108-88-3   | < 40                           | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |  |

#### 3.2. Mixture

Not applicable

| SECTION 4: First aid measures         |   |
|---------------------------------------|---|
| 4.1. Description of first aid measure | S   |
| First-aid measures general            | Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek<br>medical advice immediately (show the label where possible). If possible show this sheet; if not<br>available show packaging or label. IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.   |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get medical advice/attention.   |
| First-aid measures after eye contact  | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.  |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.   |
| 4.2. Most important symptoms and e    | effects, both acute and delayed   |
| Symptoms/injuries after inhalation    | : Impairtment of coordination, distorted perception and CNS disturbances have been reported for toluene intoxication. Overexposure may cause: Coughing. Headache. Nausea.   |
| Symptoms/injuries after skin contact  | : May cause skin irritation / dermatitis.   |
| Symptoms/injuries after eye contact   | : May cause eye irritation.   |
| Symptoms/injuries after ingestion     | : Oral toxicity is associated with toluene which causes psychophysiological and bone marrow changes nausea, vomiting, headache, visual effects including blindness.   |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

| SECTION 5: Firefighting measures      | S  |
|---------------------------------------|--|
| 5.1. Extinguishing media              |  |
| Suitable extinguishing media          | : Water fog. Water spray. Foam. Carbon dioxide. Dry chemical.  |
| Unsuitable extinguishing media        | : Do not use a heavy water stream.   |
| 5.2. Special hazards arising from the | substance or mixture   |
| Fire hazard                           | : Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.           |
| Explosion hazard                      | : May form flammable/explosive vapor-air mixture.  |
| 5.3. Advice for firefighters          |  |
| Firefighting instructions             | : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.  |
| Protection during firefighting        | : Do not enter fire area without proper protective equipment, including respiratory protection.<br>Avoid all eye and skin contact and do not breathe vapor and mist. |

| SECTI               | ON 6: Accidental release meas                 | ures  |
|---------------------|---|---|
| 6.1.                | Personal precautions, protective equ          | lipment and emergency procedures  |
| General             | measures                                      | : Eliminate every possible source of ignition. Use special care to avoid static electric charges. |
| 6.1.1.<br>Emerger   | For non-emergency personnel<br>ncy procedures | : Evacuate unnecessary personnel.   |
| 6.1.2.<br>Protectiv | For emergency responders<br>re equipment      | : Equip cleanup crew with proper protection. Avoid breathing vapors.                              |
| 6.2.                | Environmental precautions                     |   |

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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| 6.3. Methods and materia  | al for containment and cleani         | ng up   |  |   |
|---|---------------------------------------|---|--|---|
| Methods for cleaning up   |                                       | any spills as soon as possib<br>Ils into appropriate containe                             |  | material to collect it. Sweep or<br>y non-sparking tools. |
| 6.4. Reference to other set   | ections                               |   |  |   |
| See Heading 8. Exposure contro  | ols and personal protection.          |   |  |   |
| <b>SECTION 7: Handling ar</b>   | nd storage                            |   |  |   |
| 7.1. Precautions for safe   |                                       |   |  |   |
| Additional hazards when process   |                                       | noty containers with care be  | cause residual vapors  | are flammable.  |
| Additional hazards when processed       : Handle empty containers with care because residual vapors are flammable.         Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid a skin contact and do not breathe vapor and mist. Containers and transfer lines requ during use. Provide good ventilation in process area to prevent accumulation of va only non-sparking tools. Take precautionary measures against static discharge.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drint |                                       |   | Id understood. Avoid all eye and<br>and transfer lines require grounding<br>ent accumulation of vapors. Use<br>inst static discharge.<br>ater before eating, drinking or |   |
|   | smoking a                             | nd when leaving work. Was   | h contaminated clothir   | ng before reuse.  |
|   | storage, including any incom          |   |  |   |
| Storage conditions  | •                                     | ainer tightly closed.   |  |   |
| Incompatible materials  | : Oxidizing a                         | •   |  |   |
| Storage area  | : Store away                          | y from heat. Store in a well-   | ventilated place.  |   |
| 7.3. Specific end use(s)  |                                       |   |  |   |
| No additional information availab   | ble                                   |   |  |   |
| SECTION 8: Exposure c   | ontrols/personal protec               | ction   |  |   |
| 8.1. Control parameters   |                                       |   |  |   |
| Toluene (108-88-3)  |                                       |   |  |   |
| USA ACGIH   | ACGIH TWA (ppm)                       |   | 20 ppm   |   |
| USA NIOSH   | NIOSH REL (TWA) (mg/m <sup>3</sup> )  |   | 375 mg/m <sup>3</sup>  |   |
| USA NIOSH   | NIOSH REL (TWA) (ppm)                 |   | 100 ppm  |   |
| USA NIOSH   | NIOSH REL (STEL) (mg/m <sup>3</sup> ) |   | 560 mg/m <sup>3</sup>  |   |
| USA NIOSH   | NIOSH REL (STEL) (ppm)                |   | 150 ppm  |   |
|   | . , ,                                 |   |  |   |
| USA OSHA  | OSHA PEL (TWA) (ppm)                  |   | 200 ppm  |   |
| USA OSHA  | OSHA PEL (Ceiling) (ppm)              |   | 300 ppm  |   |
| USA IDLH  | US IDLH (ppm)                         |   | 500 ppm  |   |
| 8.2. Exposure controls  |                                       |   |  |   |
| Appropriate engineering controls<br>Personal protective equipment   | : Avoid all u                         | cal exhaust or general room<br>innecessary exposure. Eme<br>n the immediate vicinity of a | rgency eye wash foun   | tains and safety showers should be                        |
| Hand protection   | : Neoprene                            | or nitrile rubber gloves.   |  |   |
| Eye protection  | : Chemical                            | goggles or face shield. Cont  | tact lenses should not   | be worn.  |
| Skin and body protection  | : Wear suita                          | : Wear suitable protective clothing.  |  |   |
| Respiratory protection  |                                       | oosure through inhalation m<br>nded. NIOSH-certified organ                                |  | piratory protection equipment is ge) respirator.          |
| <b>SECTION 9: Physical an</b>   | d chemical properties                 |   |  |   |
|   | physical and chemical prop            | erties  |  |   |
| Physical state  | : Liquid                              |   |  |   |
| Appearance : Clear solution.  |                                       |   |  |   |
| Molecular mass  |                                       |   |  |   |
| Color   | : Colorless.                          |   |  |   |
| Odor  | : Aromatic.                           |   |  |   |
| Odor threshold  | : No data av                          | vailable  |  |   |
| Refractive index  | : No data av                          |   |  |   |
| рН  | : No data av                          |   |  |   |
| Relative evaporation rate (butyl  | acetate=1) : No data av               | vailable  |  |   |

Melting point

Freezing point

: < 0 °C

: No data available

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| -  |                                     |
|--|-------------------------------------|
| Boiling point  | : 110 °C - initial (toluene)        |
| Flash point  | : 14 °C                             |
| Auto-ignition temperature                                  | : 536 °C toluene                    |
| Decomposition temperature                                  | : No data available                 |
| Flammability (solid, gas)                                  | : Highly flammable liquid and vapor |
| Vapor pressure   | : 22 mm Hg @ 20°C (toluene)         |
| Relative vapor density at 20 °C                            | : No data available                 |
| Relative density   | : > 1 (toluene)                     |
| VOC content  | : 35 - 45 %                         |
| Solubility   | : Insoluble.                        |
| Log Pow  | : No data available                 |
| Log Kow  | : No data available                 |
| Viscosity, kinematic                                       | : No data available                 |
| Viscosity, dynamic   | : No data available                 |
| Explosive properties                                       | : No data available                 |
| Oxidizing properties                                       | : No data available                 |
| Explosion limits   | : 1.2 - 7 vol %                     |
|  |                                     |
| 9.2. Other information No additional information available |                                     |
|  |                                     |
| SECTION 10: Stability and reactivity                       |                                     |
| 10.1. Reactivity   |                                     |
| No additional information available                        |                                     |
| 10.2. Chemical stability                                   |                                     |
| Stable.  |                                     |
| 10.3. Possibility of hazardous reactions                   |                                     |
| No additional information available                        |                                     |
| 10.4. Conditions to avoid                                  |                                     |
| No additional information available                        |                                     |
|  |                                     |
| 10.5. Incompatible materials                               |                                     |
| Oxidizing agent.   |                                     |
| 10.6. Hazardous decomposition products                     |                                     |
| Organic acid vapors. Silicon dioxide.                      |                                     |
| <b>SECTION 11: Toxicological informati</b>                 | on                                  |
| 11.1. Information on toxicological effects                 |                                     |
| Acute toxicity   | : Not classified                    |
| Silanol Modified Q Silica Resin (56275-01-5)               |                                     |
| LD50 oral rat  | > 5000 mg/kg                        |
| Toluene (108-88-3)   |                                     |
| LD50 oral rat  | 2600 mg/kg                          |
| LD50 dermal rabbit   | 12000 mg/kg                         |
| LC50 inhalation rat (mg/l)                                 | 12.5 mg/l/4h                        |
| Skin corrosion/irritation                                  | : Not classified                    |
| Serious eye damage/irritation                              | : Not classified                    |
| Respiratory or skin sensitization                          | : Not classified                    |
| Germ cell mutagenicity                                     | : Not classified                    |
| Carcinogenicity  | : Not classified                    |
| Toluene (108-88-3)   |                                     |
| IARC group   | 3 - Not classifiable                |
| Reproductive toxicity                                      | : Not classified                    |
| Specific target organ toxicity (single exposure)           | : Not classified                    |
|  |                                     |

Specific target organ toxicity (repeated

exposure)

: Not classified

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| Symptoms/injuries after inhalation  | : Impairtment of coordination, distorted perception and CNS disturbances have been reported for toluene intoxication. Overexposure may cause: Coughing. Headache. Nausea.   |
|---|---|
| Symptoms/injuries after skin contact  | : May cause skin irritation / dermatitis.   |
| Symptoms/injuries after eye contact   | : May cause eye irritation.   |
| Symptoms/injuries after ingestion   | : Oral toxicity is associated with toluene which causes psychophysiological and bone marrow changes nausea, vomiting, headache, visual effects including blindness.   |
| SECTION 12: Ecological information  |   |
| 12.1. Toxicity  |   |
| Ecology - water   | : Toxic to aquatic life with long lasting effects.  |
| Toluene (108-88-3)  |   |
| LC50 fish 1   | 15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])  |
| EC50 Daphnia 1  | 5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  |
| LC50 fish 2   | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])   |
| EC50 Daphnia 2  | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |
| 12.2. Persistence and degradability   |   |
| No additional information available   |   |
| 12.3. Bioaccumulative potential   |   |
| Toluene (108-88-3)  |   |
| Log Pow   | 2.65  |
| 12.4. Mobility in soil  |   |
| No additional information available   |   |
| 42.5 Other advance officiate  |   |
| 12.5. Other adverse effects   | : No additional information available   |
| Effect on ozone layer<br>Effect on the global warming   | : No known ecological damage caused by this product.  |
| Encer on the global warming   |   |
| SECTION 13: Disposal consideration  | 15  |
|   |   |
| 13.1. Waste treatment methods   |   |
|   | : Dispose in a safe manner in accordance with local/national regulations. Dispose of  |
| 13.1. Waste treatment methods   |   |
| 13.1.         Waste treatment methods           Waste disposal recommendations  | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.  |
| 13.1.         Waste treatment methods           Waste disposal recommendations         Additional information   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> </ul>  |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> </ul>  |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> </ul>  |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information         14.1.         UN number   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information         14.1.       UN number         UN-No.(DOT)   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information         14.1.       UN number         UN-No.(DOT)         DOT NA no.  | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information         14.1.       UN number         UN-No.(DOT)         DOT NA no.         14.2.       UN proper shipping name  | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| 13.1.       Waste treatment methods         Waste disposal recommendations         Additional information         Ecology - waste materials         SECTION 14: Transport information         14.1.       UN number         UN-No.(DOT)         DOT NA no.         14.2.       UN proper shipping name  | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| <ul> <li>13.1. Waste treatment methods</li> <li>Waste disposal recommendations</li> <li>Additional information</li> <li>Ecology - waste materials</li> <li>SECTION 14: Transport information</li> <li>14.1. UN number</li> <li>UN-No.(DOT)</li> <li>DOT NA no.</li> <li>14.2. UN proper shipping name</li> <li>Proper Shipping Name (DOT)</li> <li>Department of Transportation (DOT) Hazard</li> </ul>   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| <ul> <li>13.1. Waste treatment methods</li> <li>Waste disposal recommendations</li> <li>Additional information</li> <li>Ecology - waste materials</li> <li>SECTION 14: Transport information</li> <li>14.1. UN number</li> <li>UN-No.(DOT)</li> <li>DOT NA no.</li> <li>14.2. UN proper shipping name</li> <li>Proper Shipping Name (DOT)</li> <li>Department of Transportation (DOT) Hazard Classes</li> </ul>   | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
| <ul> <li>13.1. Waste treatment methods</li> <li>Waste disposal recommendations</li> <li>Additional information</li> <li>Ecology - waste materials</li> <li>SECTION 14: Transport information</li> <li>14.1. UN number</li> <li>UN-No.(DOT)</li> <li>DOT NA no.</li> <li>14.2. UN proper shipping name</li> <li>Proper Shipping Name (DOT)</li> <li>Department of Transportation (DOT) Hazard Classes</li> <li>Hazard labels (DOT)</li> </ul>  | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Avoid release to the environment.</li> </ul> |
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| pas   | (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a senger vessel carrying a number of passengers limited to not more than the larger of 25 sengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on |
|---|---|
|   | ssenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this tion is exceeded.  |
| Air transport   |   |
| DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27)  |   |
| DOT Quantity Limitations Cargo aircraft only (49 : 60 CFR 175.75)   | L   |
| SECTION 15: Regulatory information  |   |
| 15.1. US Federal regulations  |   |
| Silanol Modified Q Silica Resin (56275-01-5)  |   |
| Listed on the United States TSCA (Toxic Substances  | Control Act) inventory  |
| Toluene (108-88-3)  |   |
| Listed on the United States TSCA (Toxic Substances<br>Listed on United States SARA Section 313  |   |
| SARA Section 313 - Emission Reporting 1.0   | %   |
| 15.2. International regulations   |   |
| Silanol Modified Q Silica Resin (56275-01-5)  |   |
| Listed on the AICS (Australian Inventory of Chemical S<br>Listed on the Canadian NDSL (Non-Domestic Substar<br>Listed on IECSC (Inventory of Existing Chemical Subs<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals<br>Listed on PICCS (Philippines Inventory of Chemicals | tances List)<br>tances Produced or Imported in China)   |
| Toluene (108-88-3)  |   |
| Listed on the AICS (Australian Inventory of Chemical S<br>Listed on the Canadian DSL (Domestic Sustances List   |   |
| Listed on IECSC (Inventory of Existing Chemical Subs  |   |
| Listed on the EEC inventory EINECS (European Inven  |   |
| Listed on the Japanese ENCS (Existing & New Chemi<br>Listed on the Korean ECL (Existing Chemicals List)   | car Substances) inventory   |
| Listed on NZIoC (New Zealand Inventory of Chemicals   |   |
| Listed on PICCS (Philippines Inventory of Chemicals a<br>Japanese Poisonous and Deleterious Substances Cor  |   |
| Japanese Pollutant Release and Transfer Register La   |   |
| Listed on the Canadian IDL (Ingredient Disclosure List<br>Listed on INSQ (Mexican national Inventory of Chemic  |   |
| Listed on Turkish inventory of chemical   |   |
|   |   |
| 15.3. US State regulations  |   |
| SILANOL-TRIMETHYLSILYL MODIFIED Q RESIN, 60<br>U.S California - Proposition 65 - Carcinogens List   | % In foluene(56275-01-5)  |
| U.S California - Proposition 65 - Developmental<br>Toxicity   | No  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Female   | No  |
| U.S California - Proposition 65 - Reproductive<br>Toxicity - Male   | No  |
| Silanol Modified Q Silica Resin (56275-01-5)  |   |

| Shahor woullieu & Shica K                                | esiii (J027J-01-J)   |   |   |                                      |
|--|--|---|---|--------------------------------------|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk level<br>(NSRL) |
| No   | No   | No  | No  |                                      |
| Toluene (108-88-3)                                       |  |   |   |                                      |
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -           | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -         | No significance risk level<br>(NSRL) |

Safety Data Sheet

| Toluene (108-88-3) |     |        |      |  |
|--------------------|-----|--------|------|--|
|                    |     | Female | Male |  |
|                    |     |        |      |  |
|                    |     |        |      |  |
| No                 | Yes | Yes    | No   |  |

#### **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

| Asp. Tox. 1   | Aspiration hazard Category 1   |
|---------------|--|
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A                        |
| Flam. Liq. 2  | Flammable liquids Category 2   |
| Repr. 2       | Reproductive toxicity Category 2                                     |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2                                 |
| STOT RE 2     | Specific target organ toxicity (repeated exposure) Category 2        |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3          |
| H225          | Highly flammable liquid and vapor                                    |
| H304          | May be fatal if swallowed and enters airways                         |
| H315          | Causes skin irritation   |
| H319          | Causes serious eye irritation  |
| H336          | May cause drowsiness or dizziness                                    |
| H361          | Suspected of damaging fertility or the unborn child                  |
| H373          | May cause damage to organs through prolonged or repeated<br>exposure |

#### **HMIS III Rating**

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability Physical

- : 3 Serious Hazard
- : 0 Minimal Hazard

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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