MSDS Document

Product  Dynatex® 49202 Red Hi-Temp RTV Silicone Gasket Maker - L/V

1. Chemical Product and Company Identification

Trade Name of this Product  Dynatex® 49202 Red Hi-Temp RTV Silicone Gasket Maker - L/V
MSDS ID  DYN49202
Manufacturer
Dynatex Inc.
350 Ring Road
Elizabethtown, KY 42701
Phone Number
(270) 769-3385
Emergency Phone
CHEMTREC (800) 424-9300
Revision Date  4/5/2012

2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH TLV</th>
<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyltriacetoxysilane</td>
<td>4253-34-3</td>
<td>1% - 5%</td>
<td>TWA 10ppm</td>
<td>TWA 10ppm</td>
<td>15ppm</td>
</tr>
<tr>
<td>Ethyltriacetoxysilane</td>
<td>17689-77-9</td>
<td>1% - 5%</td>
<td>TWA 10ppm</td>
<td>TWA 10ppm</td>
<td>15ppm</td>
</tr>
</tbody>
</table>

3. Hazard Identification

Eye Contact
Direct contact may cause moderate irritation.

Skin Contact
May cause moderate irritation.

Inhalation
Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor/aerosol concentrations are attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.

Ingestion
Low ingestion hazard in normal use.
Symptoms of Overexposure
No known applicable information.

Existing Conditions Aggravated by Exposure
No known applicable information.

Note
The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. First Aid Information

Eye Contact
Immediately flush with water for 15 minutes. Seek medical attention.

Skin Contact
Remove from skin and wash throughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation
Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor are generated, care should be taken to prevent inhalation. In case of exposure to vapor, move to fresh air.

Ingestion
DO NOT INDUCE VOMITING. Seek immediate medical attention.

Comments
Treat according to person's condition and specifics of exposure.

5. Fire Fighting Measures

Flash Point
>212F >100C

Auto-ignition Temperature
Not determined

Flammability Limits in Air
Not determined

Extinguishing Media
On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers.

Special Fire Fighting Procedures
Self-contained breathing apparatus and protective clothing should be worn when fighting
large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire or Explosion Hazards
None known

Hazardous Decomposition Products
Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:
- Carbon oxides and traces of incompletely burned carbon compounds
- Formaldehyde
- Silicon dioxide
- Metal oxides

Comment
When temperatures above 150°C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limits for formaldehyde.

6. Accidental Release Measures

Steps to be taken in case of spill or release
Observe all personal protection equipment recommendations. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur.

Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

7. Handling and Storage

Handling
Use with adequate ventilation. Product evolves acetic acid with exposed to water or humid air. Provide ventilation during use to control acetic acid with exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor. Keep container closed.

Storage
Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture. This material in its finely divided form presents an explosion hazard. Follow NFPA 654 (for chemical dusts) or 484 (for metal dusts) as
appropriate for managing dust hazards to minimize secondary explosion potential.

8. Exposure Controls and Personal Protection

Component Exposure Limits
Component Name: Hydrotreated middle petroleum distillates
CAS Number: 64742-46-7
Exposure Limits: OSHA PEL (final rule) and ACGIH TLV for oil mists: TWA 5 mg/m3

Component Name: Ethyltriacetoxysilane
CAS Number: 17689-77-9
Exposure Limits: See acetic acid comments

Component Name: Methyltriacetoxysilane
CAS Number: 4253-34-3
Exposure Limits: See acetic acid comments

Acetic acid is formed upon contact with water or humid air.

Engineering Controls
Local Ventilation: Recommended
General Ventilation: Recommended

Eye Protection
Safety goggles or glasses with side shields are recommended.

Skin Protection
Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:
Handle in accordance with good industrial hygiene and safety practices.

Respiratory Protection
Use respiratory protection unless adequate exhaust ventilation is provided or exposure assessment demonstrates that exposures are within exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator
Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Precautionary Measures
Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.
Comment
Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection.

When heated to temperatures above 150C (300F) in the presence of air, product can form formaldehyde vapors. Physical and health hazard information is readily available on the Material Safety Data Sheet.

Note
These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Paste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.007</td>
</tr>
<tr>
<td>Color/Appearance</td>
<td>Red</td>
</tr>
<tr>
<td>Odor</td>
<td>Acetic Acid Odor</td>
</tr>
<tr>
<td>pH</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Boiling/Cond. Point</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>VOC %</td>
<td>30 g/L</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

Note
The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Chemical Stability
Stable

Hazardous Polymerization
Will not occur

Conditions to Avoid
None known

Materials to Avoid / Incompatibility
Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.

11. Toxicological Information

Component Toxicology Information
No known applicable information.
Special Hazard Information on Components
No known applicable information.

12. Ecological Information

   Environmental Fate and Distribution
   Complete information is not yet available.

   Environmental Effects
   Complete information is not yet available.

   Fate and Effects in Waste Water Treatment Plants
   Complete information is not yet available.

13. Disposal Considerations

   Waste Disposal Method
   We make no guarantee or warranty of any kind that the use or disposal of this product
   complies with all local, state, or federal laws. It is also the obligation of each user of the
   product mentioned herein to determine and comply with the requirements of all applicable
   statutes.

   This product is not known to be regulated under RCRA regulations. Disposal of unused
   portions of this product and process waste containing this product should be done only
   after a careful evaluation and in compliance with all federal, local and state laws.

14. Transportation Information

   DOT Road Shipment Information
   Not subject to DOT.

   Ocean Shipment (IMDG)
   Not subject to IMDG code.

   Air Shipment (IATA)
   Not subject to IATA regulations.

15. Regulatory Information

   The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR
   1910.1200.

   SARA Title III Section 302 Extremely Hazardous Substances
   None

   SARA Title III Section 304 CERCLA Hazardous Substances
   None
SARA Title III Section 312 Hazard Class
Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA Title III Section 313 Toxic Chemicals
None present or none present in regulated quantities.

Note
Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

TSCA Status
All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

California Proposition 65
This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:
None known

Massachusetts
Iron oxide (1309-37-1)
Silica, amorphous (7631-86-9)

New Jersey
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Ethyltriacetoxyasilane (17689-77-9)
Hydrotreated middle petroleum distillates (64742-46-7)
Iron oxide (1332-37-2)
Methyltriacetoxyasilane (4253-34-3)
Polydimethylsiloxane (63148-62-9)
Silica, amorphous (7631-86-9)

Pennsylvania
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Hydrotreated middle petroleum distillates (64742-46-7)
Iron oxide (1332-37-2)
Polydimethylsiloxane (63148-62-9)
Silica, amorphous (7631-86-9)

16. Other Information

Disclaimer
The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and
to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.