MATERIAL SAFETY DATA SHEET
Radiator Specialty Company
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POISON INFORMATION & EMERGENCY: 303-623-5716

MATERIAL SAFETY DATA SHEET
May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION I GENERAL INFORMATION

PRODUCT NAME             TITE-SEAL® GASKET CEMENT
PART NUMBER              T12 - 02, -02V

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>WT%</th>
<th>C.A.S. NO.</th>
<th>TLV (ACGIH--X----OSHA--------)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>30-50</td>
<td>67-63-0</td>
<td>400 PPM</td>
</tr>
</tbody>
</table>

Comments:
Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Specific Gravity (H₂O=1)</th>
<th>C. a. 1.0</th>
<th>pH</th>
<th>Neutral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility in Water</td>
<td>Partly soluble</td>
<td>Solubility in Solvent</td>
<td>Lower alcohols</td>
</tr>
<tr>
<td>Flash Point (Method) - F⁰</td>
<td>60⁰F. (PM)</td>
<td>% Volatiles By Wt.</td>
<td>C. a. 40%</td>
</tr>
<tr>
<td>Melting Point - F⁰</td>
<td>N/A</td>
<td>Boiling Point - F⁰</td>
<td>.C. a. 180⁰F.</td>
</tr>
<tr>
<td>Vapor Pressure (mmHg)</td>
<td>N/A</td>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1)</td>
<td>N/A</td>
<td>Appearance and Odor</td>
<td>Brown viscous liquid with alcoholic odor.</td>
</tr>
</tbody>
</table>

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:
Water Fog  Foam  X  CO₂  X  Dry Chemical  X

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes.

UNUSUAL FIRE AND EXPLOSION HAZARDS  May emit dense acrid smoke.
### SECTION V REACTIVITY DATA

<table>
<thead>
<tr>
<th>Stable</th>
<th>Unstable</th>
<th>Corrosive</th>
<th>NO</th>
<th>Hazardous Polymerization?</th>
<th>Yes</th>
<th>No</th>
<th>X</th>
</tr>
</thead>
</table>

Incompatibilities: Oxidizing agents / High temperatures

Hazardous Decomposition or Byproducts: Fire: normal products of combustion: carbon monoxide, smoke, carbon dioxide

### SECTION VI HEALTH HAZARD INFORMATION

**Recommended TLV of Product:** 400 ppm

**EYE CONTACT:** May cause eye burns. Material is adhesive.

**SKIN CONTACT:** Irritant

**INHALATION:** Excessive inhalation may cause headache, irritation, nausea, narcosis

**INGESTION:** Harmful if swallowed. May experience cramps, nausea, diarrhea, or even death may result.

**OTHER:** N/A

### SECTION VII EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush thoroughly with water for 15 minutes while lifting eyelids. Consult a physician immediately.

**SKIN CONTACT:** Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**INHALATION:** Move to fresh air immediately. If breathing is difficult, administer oxygen; if breathing has stopped, apply artificial respiration. Keep warm and summon medical assistance.

**INGESTION:** If swallowed, induce vomiting. Consult physician immediately.

### SECTION VIII SPECIAL PROTECTION INFORMATION

**CONSUMER BULK HANDLING (Prolonged Exposure):**

**RESPIRATORY PROTECTION:** NA

If TLV is exceeded, use NIOSH approved respirator

**VENTILATION:** Use with adequate ventilation

Local

**EYE PROTECTION:** NA

Safety glasses with side shields

**PROTECTIVE CLOTHING:** NA

Rubber Gloves and Apron

### SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

**SPILL OR LEAK PROCEDURE:** Observing health hazards described above, remove ignition sources, ventilate area, wipe up with rags or use dry absorbent. Transfer to waste drum.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with all applicable government laws and regulations.

**STORAGE AND HANDLING PRECAUTIONS:** Store in a cool, dry place, keep away from oxidizing agents and ignition sources.

**OTHER PRECAUTIONS:** WEARING CONTACT LENSES IS INADVISABLE WHILE USING THIS PRODUCT! KEEP AWAY FROM CHILDREN AND ANIMALS! RESPECT ALL CHEMICALS!

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.