Sunnyside Acetone is a very fast evaporating, extremely flammable solvent. It can be used to dissolve many natural and synthetic gums, waxes, oils and dyes. It will readily mix with water, alcohols, esters, ethers and other organic solvents.

### Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Results</th>
<th>ASTM</th>
<th>Applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity, (60 °F) API</td>
<td>0.792</td>
<td>D-278</td>
<td></td>
</tr>
<tr>
<td>Specific Density (Lb./GAL)</td>
<td>6.6</td>
<td>D-1298</td>
<td></td>
</tr>
<tr>
<td>Distillation Range IBP ° F</td>
<td>133</td>
<td>D-86</td>
<td></td>
</tr>
<tr>
<td>Freezing Point, °F (°C)</td>
<td>-199</td>
<td>D-1133</td>
<td></td>
</tr>
<tr>
<td>Kauri Butanol (Kb) Value</td>
<td></td>
<td>D-611</td>
<td></td>
</tr>
<tr>
<td>Flash Point, T.C.C. °F</td>
<td>0</td>
<td>D-56</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits in Air, % by Volume</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower, at 100 °F (38 °C)</td>
<td>2.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper, at 200 °F (93 °C)</td>
<td>12.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature, °F (°C)</td>
<td>869</td>
<td>D-1255</td>
<td></td>
</tr>
<tr>
<td>Color (Pt-Co) Max.</td>
<td>5</td>
<td>D-156</td>
<td></td>
</tr>
<tr>
<td>Doctor Test</td>
<td></td>
<td>D-484</td>
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<tr>
<td>Corrosion, 3 HRS. @ 212 °F</td>
<td></td>
<td>D-130</td>
<td></td>
</tr>
<tr>
<td>Non-Volatiles, g/100ml</td>
<td></td>
<td>D-1353</td>
<td></td>
</tr>
<tr>
<td>Acidity (as Acetic Acid)</td>
<td>0.002 max.</td>
<td>D-847</td>
<td></td>
</tr>
<tr>
<td>Alkalinity (as NH3, WT%)</td>
<td>0.001 max.</td>
<td>D-1614</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than ether</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, water-white</td>
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<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic, Nonresidual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Pressure, mm Hg @ 20 °C</td>
<td>213</td>
<td>D-1296</td>
<td></td>
</tr>
<tr>
<td>Refractive Index, @ 20 °C</td>
<td>213</td>
<td>D-1218</td>
<td></td>
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<tr>
<td>Purification, by G.C., Wt%</td>
<td>99.5 Min.</td>
<td>D-1266</td>
<td></td>
</tr>
<tr>
<td>Water Content, Wt%</td>
<td>0.5 Max.</td>
<td>D-1364</td>
<td></td>
</tr>
<tr>
<td>Water Miscibility</td>
<td>Complete</td>
<td>D-1722</td>
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</tr>
<tr>
<td>DOT Name</td>
<td>Acetone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOT Classification</td>
<td>Hazard Class III</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Wt. at 20 °C</td>
<td>6.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V.O.C. (g/L)</td>
<td>0-Exempt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

These properties are representative of typical inspections. They do not constitute product specifications. Consult MSDS sheet for additional information.

See MSDS sheet for additional Health, Safety, Handling and Regulatory Information available on our website at www.sunnysidecorp.com/msds.html
MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 3/1/2007
CODE: 9256

SECTION 1 - PRODUCT IDENTIFICATION
Distributor: Custom Solutions
Emergency Phone: 800-309-5869
Address: 900 E. 103rd Street, Chicago, IL 60628
Prepared By: LPL
Trade Name: BRILLIANCE
Product Type: Stainless Steel Polish

SECTION 2 - INGREDIENTS
CHEMICAL NAME/COMMON NAME | CAS NO. | WT. %(opt) | TLV(Source) | TITLE III, SECT. 313
--- | --- | --- | --- | ---
Mineral Spirits | 64741-65-7 | 25 - 30 | 100ppm (TWA) | NO
Isoparaffinic Solvent | 64741-66-8 | 40 - 50 % | 400 ppm (TWA) | NO
1-Methyl-2Pyrrolidinone | 872-50-4 | <5% | 100ppm (TWA) | YES
Mineral Oil | 8042-47-5 | 15 - 20% | 5mg/m3 (TWA as mist) | NO
Liquefied Petroleum Gas | 68476-85-7 | 10% | 1000ppm (TWA/PEL) | NO

SECTION 3 - PHYSICAL DATA
Boiling point (°F.) | NA | Specific Gravity (H2O=1.0) | <1.0 ± 0.005 | pH | NA
Vapor Pressure (mm Hg) | 60psig@130F | Vapor Density (Air=1) | >1 | Solubility in water | Complete
Evaporation Rate (vs. H2O) | Faster | Insoluble | Insoluble (or Dispersible) | X
Appearance and Odor | Clear with hydrocarbon odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA
Flash Point (T.C.C.) | <100°F (Flammable) | Flammable Limits | Upper | 9.2 | Lower | 1.8
Extinguishing Media | Carbon dioxide, foam and/or dry chemical may be used.
Special Firefighting Procedures | Containers should be cooled with water to prevent vapor pressure build up.
Unusual Fire and Explosion Hazards | At elevated temperatures (over 54°C-130°F) containers may vent or burst.

SECTION 5 - REACTIVITY DATA
Stability: Stable
Incompatibility: Oxidizing agents
Hazardous Decomposition Products: Oxides of carbon.

SECTION 6 - HEALTH HAZARD DATA
Primary Routes of Exposure | Eye | X | Skin | X | Inhalation | X | Other
Signs and Symptoms of Overexposure (Acute) | High vapor concentrations may result in central nervous system depression and evidenced by giddiness, headache and nausea. Ingestion may result in vomiting. Prolonged or repeated skin contact can result in drying and defatting of skin. Moderate eye irritant.
Signs and Symptoms of Overexposure (Chronic) | None currently known.
Medical Conditions Aggravated by Overexposure | Pre-existing skin or eye disorders may be aggravated by exposure to this product.
Carcinogen or Suspect Carcinogen Ingredients | NTP | OSHA | X | IARC

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES
Eyes | Flush eyes with water for at least 15 minutes and call a physician immediately.
Skin | Wash affected areas with large amounts of soap and water. If irritation persists call physician.
Ingestion | Do not induce vomiting. Contact local poison control center or physician immediately.
Inhalation | Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

SECTION 8 - SPECIAL PROTECTION INFORMATION
Respiratory Protection | Not required under normal use conditions with good general ventilation. Protect against generated mists/sprayback.
Ventilation Requirements | Local Exhaust | X | Mechanical | Other | Eye Protection | Safety Glasses/Goggles
Protective Gloves/Rubber/PVC | Other Protective Clothing

SECTION 9 - SPILL OR LEAK PROCEDURES
Steps To Be Taken If Released or
Waste Disposal Methods | Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container.
When contents depleted, depress button until all gas is expelled. Dispose of container according to Federal, State and local regulations.

SECTION 10 - STORAGE AND HANDLING INFORMATION
Precautions to be Taken in Handling and Storage | Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not expose to direct sunlight or store at temperatures above 130°F (54°C). Do not puncture or incinerate containers. Store as Level 3 Aerosol (NFPA 30B)

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMS HAZARD RATING
HEALTH | 2 | 0 - LEAST
FLAMMABILITY | 4 | 1 - SLIGHT
REACTIVITY | 0 | 2 - MODERATE
PERSONAL PROTECTION | B | 3 - HIGH
EXTREME
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name: C6 Epoxy Adhesive
Version #: 01
Revision date: 06-09-2010
CAS #: Mixture
Product Code: C6
Product use: Concrete anchoring adhesive.
Manufacturer/Supplier: ITW Red Head
2171 Executive Drive, Suite 100
Addison, IL 60101 US
Telephone Number: (630) 350-0370
Contact Person: Andrew Rourke

Emergency
CHEMTREC: (800) 424-9300

2. Hazards Identification

Physical state: Liquid.
Appearance: Paste.
Emergency overview: Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful if absorbed through skin or swallowed. May cause sensitization by skin contact. Prolonged exposure may cause chronic effects.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure

Inhalation: Causes severe respiratory tract irritation. Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing.

Ingestion: Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.


Chronic effects: Overexposure can cause lung damage - pulmonary toxin.

Potential environmental effects: The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A Diglycidyl Ether Resin (Part A)</td>
<td>25068-38-6</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Mercaptan/Amine Polymer Blend (Part B)</td>
<td>Trade Secret</td>
<td>20 - 40</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl) Phenol (Part B)</td>
<td>90-72-2</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Isopropanol (Part B)</td>
<td>67-63-0</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion
Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Notes to physician
Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice
Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria. Material may burn but not ignite readily.

Extinguishing media

Protection of firefighters

Protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

Special protective equipment for fire-fighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Specific methods
In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment
Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect spillage. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Wear personal protective equipment. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage
Keep container tightly closed. For maximum shelf life, store between 4.4°C (40°F) to 26.7°C (80°F). Do not store above 43.3°C (110°F). Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>U.S. - OSHA Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>------------------------</td>
<td>------</td>
<td>---------------</td>
</tr>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>PEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>980 mg/m³</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada - Alberta Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
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<tr>
<td></td>
<td></td>
<td>400 ppm</td>
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<tr>
<td></td>
<td>TWA</td>
<td>492 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>200 ppm</td>
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</table>

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<thead>
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<th>Canada - British Columbia Components</th>
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<tbody>
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<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada - Ontario Components</th>
<th>Type</th>
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</tr>
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<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada - Quebec Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>1230 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>983 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>400 ppm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mexico Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m³</td>
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<tr>
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<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

**Engineering controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Personal protective equipment**

- **Eye / face protection**
  Wear safety glasses with side shields (or goggles) and a face shield.

- **Skin protection**
  Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

- **Respiratory protection**
  In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

- **General hygiene considerations**
  Avoid contact with eyes. Avoid contact with skin. Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

- **Appearance** Paste.
- **Color** Gray/white.
- **Odor** Characteristic.
- **Odor threshold** Not available.
- **Physical state** Liquid.
- **Form** Liquid. Paste.
- **pH** Not available.
- **Melting point** Not available.
- **Freezing point** Not available.
- **Boiling point** > 500 °F (> 260 °C) Part A
- **Flash point** > 200 °F (> 93.3 °C)
- **Evaporation rate** Not available.
- **Flammability** Not available.
Flammability limits in air, upper, % by volume Not available.
Flammability limits in air, lower, % by volume Not available.
Vapor pressure Not available.
Vapor density Not available.
Specific gravity Not available.
Solubility (water) None.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Density 1.3 g/cm³ Part A
1.7 g/cm³ Part B

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.
Conditions to avoid Elevated temperatures.
Incompatible materials Strong oxidizing agents. Strong acids.
Possibility of hazardous reactions Will not occur by itself. More than 1 pound of the Part B material added to epoxy resins will cause irreversible polymerization with considerable heat build-up.

11. Toxicological Information

Toxicological data Components Test Results
Isopropanol (Part B) (67-63-0) Acute Dermal LD50 Rabbit: 5030 - 7900 mg/kg
Acute Oral LD50 Rat: 4700 - 5800 mg/kg
Mercaptan/Amine Polymer Blend (Part B) (Trade Secret) Acute Dermal LD50 Rabbit: > 10000 mg/kg
Acute Oral LD50 Rat: > 3000 mg/kg

Local effects Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful in contact with skin and if swallowed. May cause sensitization by skin contact.
Sensitization May cause an allergic skin reaction.
Chronic effects Overexposure can cause lung damage.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
ACGIH Carcinogens Isopropanol (Part B) (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Epidemiology This product is not reported to cause epidemiological effects in humans.
Mutagenicity This product is not expected to cause mutagenic or genotoxic effects.
Neurological effects Not available.
Reproductive effects Isopropyl alcohol has demonstrated animal effects of reproductive toxicity.
Teratogenicity Isopropyl alcohol has demonstrated animal effects of teratogenicity.
Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data Components Test Results
Isopropanol (Part B) (67-63-0) LC50 Bluegill (Lepomis macrochirus): > 1400 mg/l 96 hours

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability Not available.
Bioaccumulation / Accumulation
No data available.

Partition coefficient (n-octanol/water)
Not available.

Mobility in environmental media
No data available.

13. Disposal Considerations
Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information
Product Specific Note:
This product meets the limited quantities exception requirements for the below listed transportation agencies. Under DOT and TDG regulations, this product may be reclassified as a Consumer Commodity (ORM-D). Please see the specific regulations for the shipping and packaging requirements.

DOT
Basic shipping requirements:
Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None
Labels required None
Additional information:
Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IATA
Basic shipping requirements:
UN number 2735
Proper shipping name Amines, liquid, corrosive, n.o.s. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class 8
Packing group III

IMDG
Basic shipping requirements:
UN number 2735
Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class 8
Packing group III
EmS No. F-A, S-B

TDG
Basic shipping requirements:
Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None
Labels required None
Additional information:
Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None
15. Regulatory Information

**US federal regulations**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**
Isopropanol (Part B) (CAS 67-63-0) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**
Isopropanol (Part B) (CAS 67-63-0) Listed.

**CERCLA (Superfund) reportable quantity (lbs)**
Isopropanol (Part B) 100

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

**Section 302 extremely hazardous substance**
No

**Section 311 hazardous chemical**
No

**Drug Enforcement Agency (DEA)**
Not controlled

**Canadian regulations**
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status**
Controlled

**WHMIS classification**
D2B - Other Toxic Effects-TOXIC
E - Corrosive

**WHMIS labeling**

**Inventory status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
</tbody>
</table>
Country(s) or region | Inventory name | On inventory (yes/no)*
--- | --- | ---
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**
Isopropanol (Part B) (CAS 67-63-0) | Listed.

**US - Massachusetts RTK - Substance: Listed substance**
Isopropanol (Part B) (CAS 67-63-0) | Listed.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**
Isopropanol (Part B) (CAS 67-63-0) | 500 LBS

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**
Isopropanol (Part B) (CAS 67-63-0) | Listed.

16. Other Information

**Further information**
HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
Health: 2*
Flammability: 1
Physical hazard: 1

**NFPA ratings**
Health: 2
Flammability: 1
Instability: 0

**Disclaimer**
The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**
06-09-2010
# MATERIAL SAFETY DATA SHEET

**Product name:** RSE DOT

**Description:** High strength adhesive for anchoring and doweling in concrete.

**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

**Emergency # (Chem-Trec):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>TLV: (mg/m³)</th>
<th>PEL: (mg/m³)</th>
<th>STEL: %SiO₂ + 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>25085-99-8</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>C: 100</td>
<td>C: 50</td>
<td></td>
</tr>
<tr>
<td>Silica, quartz</td>
<td>14808-60-7</td>
<td>0.05 R</td>
<td>R: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td><strong>Part B:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-Aminoethylpiperazine</td>
<td>140-31-8</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td>84852-15-3</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Liquid Polyamide Resin</td>
<td>68082-29-1</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>2,4,6-trisdimethylaminomethylphenol</td>
<td>90-72-2</td>
<td>NE</td>
<td>R: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Silica, quartz</td>
<td>14808-60-7</td>
<td>0.05 R</td>
<td>R: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations:  
C = Ceiling.  
NE = None Established.  
NA = Not Applicable.  
R = "respirable" fraction.

## PHYSICAL DATA

### Appearance:
- A: White paste
- B: Black paste.

### Odor:
Slight amine odor.

### Vapor Pressure:
Not determined.

### VOC Content:
3.53 g/l (mixed).

### Solubility in Water:
Insoluble.

### pH:
Not determined.

## FIRE AND EXPLOSION HAZARD DATA

### Flash Point:
> 200° F

### Extinguishing Media:
CO₂, Dry Chemical, Foam, Water Spray.

### Special Fire Fighting Procedures:
A self-contained breathing apparatus should be worn when fighting fires involving chemicals.

### Unusual Fire and Explosion Hazards:
None known. Thermal decomposition products can be formed including COₓ and NOₓ.

## REACTIVITY DATA

### Stability:
Stable.

### Hazardous Polymerization:
Will not occur.

### Incompatibility:
Strong acids, peroxides, and other oxidizing agents.

### Decomposition Products:
Thermal decomposition can yield COₓ and NOₓ.

### Conditions to Avoid:
Avoid temperature extremes that could shorten the shelf-life of this product. (See handling and storage requirements for recommended storage temperatures).

## HEALTH HAZARD DATA

### Known Hazards:
- **Part A:** Eye and skin irritation. Sensitizer.  
- **Part B:** Corrosive

### Signs and Symptoms of Exposure:
- **Part A:** Can be irritating to the eyes and skin. Corneal injury is not expected. Can cause skin sensitization with some individuals (itching, redness, swelling). Inhalation-No ill effects expected.

HILTI ® is a registered trademark of Hilti Corp.
Routes of Exposure: Heated vapors can cause irritation. Part B: Can cause eye and skin burns. Inhalation-No ill effects expected. Heated vapors can cause irritation.

Carcinogenicity: Dermal. Inhalation.

IARC classifies crystalline silica (quartz sand) as a Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. This product does not pose a dust hazard; therefore, this classification is not relevant.

Medical Conditions Aggravated by Exposure: Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush immediately with water for at least 15 minutes. Contact a Physician.

Skin: Wash immediately with soap and water. Launder contaminated clothing before reuse.

Inhalation: If symptoms occur, move to fresh air. Contact a physician if symptoms persist.

Ingestion: Contact a Physician immediately. Do not induce vomiting unless directed by a Physician.

Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: General (natural or mechanically induced fresh air movements).

Eye Protection: Safety glasses with side shields.

Skin Protection: Impermeable gloves recommended.

Respiratory Protection: None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. If dusts are generated during demolition or removal, wear an appropriate dust mask or respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions: For industrial use only. Keep away from children. Use with adequate ventilation. Avoid prolonged inhalation of vapors. Avoid contact with the eyes, skin, or clothing. Practice good hygiene; i.e. wash after using and before eating or smoking. Store in a cool dry area between 41° and 77° F (5 - 25° C). Keep from freezing. Do not store in direct sunlight.

Spill Procedures: Take up with an absorbent material and place in a container for proper disposal.

REGULATORY INFORMATION

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health 3, Flammability 1, Reactivity 0, PPE B

DOT Shipping Name: Consumer commodity, ORM-D

IATA / ICAO Shipping Name: Corrosive solids, n.o.s. (n-aminoethylpiperazine, nonyl phenol), UN1759, Class 8, PGIII

TSCA Inventory Status: Chemical components listed on TSCA inventory.

SARA Title III, Section 313: This product contains 0-2% ethylene glycol which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s): Not regulated by EPA as a hazardous waste

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service: 1 800 879 8000

Technical Service: 1 800 879 8000

Health / Safety: 1 800 879 6000 Jerry Metcalf (x6704)

Emergency # (Chem-Trec): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.
MATERIAL SAFETY DATA SHEET

1. Identification of the material and supplier
Product name: CLC COOLANT 2240 A
Product use: Coolant
Supplier: CLC Lubricants
0N902 Old Kirk Road
PO Box 764
Geneva, IL 60134
630-232-7900

Emergency Phone: 1-800-535-5053
Infotrac: 1-800-535-5053

2. Hazards identification
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)
This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies *See Section 8 for exposure limits.
Keep out of reach of children.
Eyes: May cause eye burns
Skin: May cause severe irritation
Ingestion: Harmful, damaging to mucous membranes
Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
Not a sensitizer.

3. Composition/ information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkanolamines</td>
<td>May be one of the following:</td>
<td>&lt;30</td>
</tr>
<tr>
<td></td>
<td>102-71-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>124-68-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27646-80-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>929-06-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>141-43-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>78-96-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>110-97-4</td>
<td></td>
</tr>
</tbody>
</table>

Non-hazardous ingredients are treated confidentially.

4. First-aid measures

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.</td>
</tr>
<tr>
<td>Skin</td>
<td>Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged but symptoms persist, seek medical attention. Launder clothing before reuse.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact physician, medical facility, or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.</td>
</tr>
</tbody>
</table>

5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Will not flash</td>
</tr>
<tr>
<td>Extinguishing media</td>
<td>Carbon dioxide, dry chemical</td>
</tr>
<tr>
<td>Protection of fire-fighters</td>
<td>Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.</td>
</tr>
</tbody>
</table>

Product Name: CLC Coolant 2240 A
Version: 3
Date of Issue: July 28, 2010
Modified by: Brenda Miller
6. Accidental release measures

Methods and materials for containment and cleanup

- Dike to contain spill, cover with inert absorbent material, sweep up and place in a suitable container. Flush area well with water. Keep spills and cleaning run-off out of municipal sewers and bodies of water.

7. Handling and storage

HANDLING: Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling.
Empty container may retain product residue which may exhibit hazards of product.

8. Exposure controls/personal protection

Alkanolamines TLV- 5 mg/M3 OSHA/ACGIH

Personal protective equipment

- Respiratory system: None required; however, use of adequate ventilation is good industrial practice.
- Hands: Wear suitable gloves
- Skin and body: Avoid contact with skin clothing. Wear suitable protective clothing.
- Eyes: Safety glasses with side shields.

9. Physical and chemical properties

- Physical state: Liquid
- Color: Clear blue
- Boiling point: >212°F
- Freezing point: <32°F
- pH (concentrated): 9-11
- Solubility in water: Complete
- Specific Gravity: 1.029
- Density: 8.56 lbs/gal

10. Stability and reactivity

- Stability: Stable under normal conditions
- Incompatibility with various substances/hazardous reactions: Avoid acids, acetone, aldehydes, aluminum, copper, halogenated hydrocarbons, ketones, strong alkalis, strong oxidizing agents, metals, organic anhydrides, organic halides.
- Hazardous polymerization: Will not occur
- Decomposition products: Oxides of Carbon, sulfur, and nitrogen

11. Toxicological information

- For Alkanolamines:
  - Oral LD50, Rat: 2000-4000 mg/kg
  - Dermal LD50, Rabbit: >2000 mg/kg
  - Not a sensitizer
  - Not a carcinogen
  - Not mutagenic

12. Ecological information

- For Alkanolamines:
  - Bacterial Toxicity EC50= 132 ppm
  - Acute Fish Toxicity, Bluegill Sunfish, 96 h LC50= 190 mg/l
  - Acute Fish Toxicity, Plaice, 96 h LC 50= 180 mg/l
  - Acute Toxicity, Daphnia magna, 48 h LC50= 193 mg/l
  - Acute Toxicity, Brown Shrimp, 96 h LC50= 179 mg/l
  - Bacterial Toxicity, Pseudomonas putida, EC10= 50 mg/l
  - LC50, Pimephales promelas, static, 96 h: 580 mg/l
  - EC50, alga Scenedesmus sp., 72 h: 270 mg/l
13. Disposal information
Materials contaminated must be disposed to a permitted hazardous waste management facility in accordance with the Clean Air and Clean Water Acts, Resources Conservation and Recovery Act, and all relevant laws or regulations regarding disposal. If it can be determined that spilled material and absorbent do not meet hazardous waste criteria, disposal may not be regulated.

14. Transport information
This product is not classified as hazardous material for DOT shipping.

| Hazard class | None |
| DOT shipping name | Mixture |
| UN number | None |
| NA number | None |

15. Regulatory information
SARA TITLE III SECTION 313: Not applicable
SARA 311/312: Acute Health Hazard
The chemical ingredients in this product are on the 8(b) TSCA Inventory Lists (40 CFR 710) or exempt.

16. Other information
All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.
The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.
It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. CLC Lubricants shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Product Name: CLC Coolant 2240 A
Version: 3
Date of Issue: July 28, 2010
Modified by: Brenda Miller
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LORD ACCELERATOR 19
Product Use/Class: ACRYLIC ADHESIVE, PART 2 OF 2

LORD CORPORATION
111 LORD DRIVE
CARY, NC 27511-7923

TRANSPORTATION EMERGENCY:
CHEMTREC 24 HR EMERGENCY NO.
800 424-9300
(Outside Continental U.S. 703 527-3887)

NON-TRANSPORTATION EMERGENCY:
INFORMATION TELEPHONE:
814 868-0924
814 763-2345

EFFECTIVE DATE: 02/10/2011

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV-STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
<th>Skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resin</td>
<td>PROPRIETARY</td>
<td>55.0 %</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Isodecyl benzoate</td>
<td>131298-44-7</td>
<td>5.0 %</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Benzoyl peroxide</td>
<td>94-36-0</td>
<td>5.0 %</td>
<td>5 mg/m3</td>
<td>N.E.</td>
<td>5 mg/m3</td>
<td>N.E.</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

3. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Off-white Viscous liquid, with Odorless odor. May cause skin and eye irritation. May cause allergic skin reaction. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause allergic skin reaction. May cause skin irritation. May cause skin sensitization.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Prolonged or repeated contact may result in dermatitis.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.
FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 201 °F, 93 °C  LOWER EXPLOSIVE LIMIT (%): Not Applicable
Setaflash Closed Cup  UPPER EXPLOSIVE LIMIT (%): Not Applicable

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Notify appropriate authorities if necessary. Avoid contact. Use appropriate respiratory protection for large spills or spills in confined area. Keep non-essential personnel away from spill area. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

STORAGE: Store only in well-ventilated areas. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

RESPIRATORY PROTECTION: Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODOR</td>
<td>Odorless</td>
</tr>
<tr>
<td>APPEARANCE</td>
<td>Off-white</td>
</tr>
<tr>
<td>PHYSICAL STATE</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>ODOR THRESHOLD</td>
<td>N.D.</td>
</tr>
<tr>
<td>SOLUBILITY IN H2O</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>N.A.</td>
</tr>
<tr>
<td>FREEZE POINT</td>
<td>N.D.</td>
</tr>
<tr>
<td>COEFFICIENT OF WATER/OIL</td>
<td>N.D.</td>
</tr>
<tr>
<td>BOILING RANGE</td>
<td>100 °C</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>N.D.</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>Heavier than Air</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>DENSITY, LB/GL</td>
<td>12.75 lb/gal</td>
</tr>
<tr>
<td>VOLATILE BY WEIGHT</td>
<td>0.92 %</td>
</tr>
<tr>
<td>VOLATILE BY VOLUME</td>
<td>1.42 %</td>
</tr>
</tbody>
</table>

(See section 16 for abbreviation legend)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

PRODUCT LD50 (ORAL) No Data
PRODUCT LC50 (DERMAL) No Data

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORT INFORMATION

This product is NOT REGULATED for non-bulk road shipments. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

This product is considered hazardous as defined by 29 CFR 1910.1200 (OSHA HazCom Standard.)

SARA SECTION 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight % Less Than</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl peroxide</td>
<td>94-36-0</td>
<td>5.0 %</td>
</tr>
</tbody>
</table>

**TOXIC SUBSTANCES CONTROL ACT:**

**INVENTORY STATUS**
The chemical substances in this product are on the TSCA Section 8 Inventory.

**EXPORT NOTIFICATION**
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

NONE

### 16. OTHER INFORMATION

**HMIS RATINGS**
- HEALTH: 2
- FLAMMABILITY: 1
- PHYSICAL HAZARD: 1

* - Indicates a chronic hazard; see Section 3

**VOLATILE ORGANIC COMPOUNDS**
Calculated: 0 lb/gal, 0 g/l

**LEGEND:**
- N.A. - Not Applicable
- N.E. - Not Established
- N.D. - Not Determined

**DISCLAIMER**
The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.
**MATERIAL SAFETY DATA SHEET**


The Steco Corporation  
2330 Cantrell Road  
P.O. Box 2238  
Little Rock, AR 72203  
Emergency Response: (800) 255-3924  
Information: (800) 643-8026  
Fax: (501) 374-4278  
Date Reviewed: **August 15, 2011**

TRADE NAME: TAP MAGIC PROTAP Cutting Fluid  
CHEMICAL NAME & SYNONYMS: Hydrocarbon Mixture  
DOT SHIPPING NAME: Not a Regulated Material  
IATA SHIPPING NAME: No hazard label required, no limit on quantity  
HMIS/NFPA CODE: Health 0; Fire 1; Reactivity 0  
MANUFACTURING CODE NO.: 8358  
COMMODITY CODE NO.: 332-9150

I. HAZARDOUS INGREDIENTS

This product contains no toxic or hazardous ingredients by OSHA criteria; however, as with any chemical product, exposure to liquids, vapors, mists and fumes should be minimized.

II. INGREDIENTS

- **Aliphatic Organic Acid**: CAS# 112-80-1  
  >75% mixture  
- **Aliphatic Organic Ester**: CAS# 112-62-9  
  <15% mixture  
- **Organic Polyol**: CAS# None Assigned  
  <10% mixture

III. PHYSICAL DATA

- **BOILING RANGE, (760 mm Mercury)**: 680 to 1000° F  
- **SPECIFIC GRAVITY (Water = 1) (lbs/gal)**: (0.894) 7.46 lbs/gal  
- **VAPOR PRESSURE (mm of Mercury) @ 75° F**: Less Than 1  
- **VAPOR DENSITY (Air = 1)**: Greater Than 5  
- **SOLUBILITY IN WATER, % by weight**: Less Than 1 (Insoluble)  
- **EVAPORATION RATE (Butyl Acetate = 1)**: Less Than 0.01  
- **% VOLATILE BY VOLUME @ 75° F**: Less Than 1  
- **APPEARANCE**: Yellow Liquid  
- **ODOR**: Pleasant  
- **pH**: Nonaqueous

IV. FIRE & EXPLOSION DATA

- **LOWER FLAMMABLE LIMIT IN AIR (% by Volume)**: 1.0  
- **UPPER FLAMMABLE LIMIT IN AIR (% by Volume)**: 15  
- **FLASH POINT, PMCC**: 370° F  
- **AUTOIGNITION TEMPERATURE**: 685° F  
- **EXTINGUISHING MEDIA**: Foam, Carbon Dioxide, Dry Chemical

V. HEALTH HAZARD INFORMATION

- **ROUTES OF ENTRY**:  
- **EFFECTS OF ACUTE OVEREXPOSURE**:  
  **INHALATION**: (Unlikely due to low vapor pressure). Mist may cause headache, nasal, respiratory and eye irritation.  
  **INGESTION**: Headache, drowsiness, nausea, fatigue.  
  **EYES**: May cause pain and irritation.

***This MSDS covers part#s 30004P, 30016P, 30128P, 30640P, 33840P & 37040P***
**EFFECTS OF CHRONIC OVEREXPOSURE:**

**SKIN CONTACT:** Prolonged or repeated exposure may cause irritation.

**CARCINOGENICITY:** Not a carcinogen or suspect carcinogen.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYE:** Flush eyes gently with water for at least 15 minutes. Supportive treatment is recommended.

**SKIN:** Wash with mild soap and water. Remove wetted clothing.

**INHALATION:** Remove to fresh air.

**INGESTION:** Do not induce vomiting. Call a physician and/or transport to emergency medical facility.

**VI. REACTIVITY DATA**

Materials such as sawdust or cloth rags which have been wetted with lubricant may be subject to spontaneous combustion during storage.

**VII. DISPOSAL, SPILL OR LEAK PROCEDURES**

**AQUATIC TOXICITY**

Aquatic toxicity is low: Product is not soluble in water. Biodegradable.

**SPILL OR LEAK PROCEDURES:**

Absorb with inert materials. Remove to out of doors and incinerate.

**WASTE DISPOSAL METHOD:**

PROTAP contains no environmentally hazardous substances. Small amounts may be incinerated in compliance with local, state and federal regulations. The recommended method of disposal for large quantities is recycling by a reclamer or incineration. "If inert absorbents are employed in spill containment or cleanup, these absorbents must be non-biodegradable materials if destined for landfill disposal. Suitable absorbents include natural minerals (clay), activated charcoal, man-made polymers (HD polyethylene)."

**VIII. SPECIAL PROTECTION INFORMATION**

**EYE PROTECTION:** Standard eye protection should be worn when using this product.

**SKIN PROTECTION:** No special protection is needed. However, good personal hygiene practices should be followed.

**RESPIRATORY:** If application to which this product is being applied generates excessive mist or fumes, then appropriate respiratory protective equipment should be used. No special requirements under ordinary condition and use and proper ventilation of work area.

**VENTILATION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**IX. SPECIAL PRECAUTIONS**

Product is ignitable, keep away from open flames. Do not expose to ignition sources. Do not store with strong oxidizers such as nitrates or perchlorates or oxygen under pressure. May cause swelling of some plastics and synthetic rubbers.

**X. ADDITIONAL INFORMATION**

**Tap Magic PROTAP DOES NOT CONTAIN 1,1,1-trichloroethane** or any ozone depleting substances. PROTAP does not contain chlorine, phosphorous, active sulfur, nitrates, nitrite derivatives, amines, polynuclear aromatic compounds either as ingredients or trace contaminants. Shelf life is indefinite at ambient temperatures and left in original containers.

**Tap Magic PROTAP** does not contain any chemical compound listed on the SARA list of ‘Extremely Hazardous Chemicals’, and is in compliance with all of the requirements of the TSCA at the time of shipment.

**Caution:** Any cutting fluid can be "overworked" or "overheated", causing it to break down. This overuse is identified by the sight of or strong odor of vapors or fumes not normally present. The effects of these vapors or fumes on human health have not been fully determined. After use of this product, clean and lubricate...
metal surfaces to avoid staining and/or corrosion.

1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>495 Super Bonder® Instant Adhesive</th>
<th>IDH number:</th>
<th>135467</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type:</td>
<td>Cyanoacrylate</td>
<td>Item number:</td>
<td>49550</td>
</tr>
<tr>
<td>Company address:</td>
<td>Henkel Corporation</td>
<td>Region:</td>
<td>United States</td>
</tr>
<tr>
<td>Contact information:</td>
<td>Telephone: 860.571.5100</td>
<td>Emergency:</td>
<td>860.571.5100</td>
</tr>
<tr>
<td>Company address:</td>
<td>Rocky Hill, Connecticut 06067</td>
<td>Internet:</td>
<td><a href="http://www.henkelna.com">www.henkelna.com</a></td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**HMIS:**
- Physical state: Liquid
- Color: Colorless to light yellow
- Odor: Irritating

**HEALTH:** 2
**FLAMMABILITY:** 2
**PHYSICAL HAZARD:** 1

**WARNING:**
- COMBUSTIBLE LIQUID AND VAPOR.
- MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.
- BONDS SKIN IN SECONDS.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

- **Inhalation:** Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.
- **Skin contact:** Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin. Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare.
- **Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.
- **Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS NUMBER</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl 2-cyanoacrylate</td>
<td>7085-85-0</td>
<td>60 - 100</td>
</tr>
<tr>
<td>Thickener</td>
<td>Proprietary</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:
Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact:
Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.

Ingestion:
Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.

Notes to physician:
Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Flash point: 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup
Autoignition temperature: 485 °C (905°F)
Flammable/Explosive limits - lower: Not determined
Flammable/Explosive limits - upper: Not determined
Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
Unusual fire or explosion hazards: None
Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Ventilate area. Do not allow product to enter sewer or waterways.
Clean-up methods: Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.
Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl 2-cyanoacrylate</td>
<td>0.2 ppm TWA</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Thickener</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: Observe OSHA regulations for respiratory use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Liquid
- Color: Colorless to light yellow
- Odor: Irritating
- Odor threshold: 1 - 2 ppm
- pH: Not applicable
- Vapor pressure: < 0.2 mm hg
- Boiling point/range: > 300 °F (> 148.9 °C)
- Melting point/range: Not determined
- Specific gravity: 1.1 at 75 °F (23.89 °C)
- Vapor density: 3 Approximately
- Flash point: 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup
- Flammable/Explosive limits - lower: Not determined
- Flammable/Explosive limits - upper: Not determined
- Autoignition temperature: 485 °C (905°F)
- Evaporation rate: Not available
- Solubility in water: Polymerises in presence of water.
- Solubility in water: Miscible
- Partition coefficient (n-octanol/water): Not applicable
- VOC content: < 2 %; < 20 gr (California SCAQMD Method 316B) (Estimated)

10. STABILITY AND REACTIVITY

- Stability: Stable under recommended storage conditions.
- Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
- Hazardous decomposition products: None
- Incompatible materials: Water, amines, alkalis and alcohols.
- Conditions to avoid: Spontaneous polymerization.

11. TOXICOLOGICAL INFORMATION

- Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)
- Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)
12. ECOLOGICAL INFORMATION

Ecological information: Not known.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Combustible liquid, n.o.s. (Cyanoacrylate ester)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class or division</td>
<td>Combustible Liquid</td>
</tr>
<tr>
<td>Identification number</td>
<td>NA 1993</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Exceptions</td>
<td>(Not more than 450 Liters), Unrestricted</td>
</tr>
</tbody>
</table>

International Air Transportation (ICAO/IATA)

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class or division</td>
<td>9</td>
</tr>
<tr>
<td>Identification number</td>
<td>UN 3334</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Exceptions</td>
<td>Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.</td>
</tr>
</tbody>
</table>

Water Transportation (IMO/IMDG)

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class or division</td>
<td>None</td>
</tr>
<tr>
<td>Identification number</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

United States Regulatory Information

<table>
<thead>
<tr>
<th>TSCA 8 (b) Inventory Status</th>
<th>All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA 12(b) Export Notification</td>
<td>None above reporting de minimus</td>
</tr>
</tbody>
</table>

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Reactive, Immediate Health, Fire, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

<table>
<thead>
<tr>
<th>CEPA DSL/NDSL Status</th>
<th>All components are listed on or are exempt from listing on the Canadian Domestic Substances List.</th>
</tr>
</thead>
</table>

IDH number: 135467 Product name: 495 Super Bonder® Instant Adhesive
16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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