

# Safety Data Sheet

Chairside Monomer for Soft Reliner

SDS DATE: 04/15/13

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Chairside Monomer for Soft Reliner

**Other Names:** R-CHEM-149, n-Butyl Methacrylate Solution

**Product Use:** Organic process chemical.

**Supplier:**

Company: Henry Schein, Inc.  
135 Duryea Road  
Melville, NY 11747 USA  
Henry Schein U.K. Holdings Ltd.  
Gillingham ME8 OSB U.K.  
Telephone: (800) 472-4346

**Emergency Information Chemtrec:**  
(800) 424-9300

## SECTION 2: HAZARDS IDENTIFICATION

**Primary Routes of Entry:**

Skin, Inhalation, Eyes.

**Potential Health Acute Effects:**

**Eyes:**

Irritation to the eyes including but not limited to blurred vision, watering and discomfort.

**Skin:**

Repeated contact with skin may cause irritation. Repeated or prolonged use can lead to more severe symptoms such as severe skin reactions, and organ damage, symptoms may be delayed.

**Inhalation:**

Irritation may occur. Repeated and/or prolonged exposure can cause dizziness, headache and anesthetic effects.

**Ingestion:**

Possible irritation and/or pain with ingestion include but are not limited to the mouth, esophagus, respiratory and digestive tracts.

**Potential Chronic Health Effects:**

Prolonged or overexposure at near lethal concentrations can cause organ damage.

*Note to Physicians:*

*This product contains N,N-Dimethyl-p-Toluidine at low concentrations (refer to section 3). While complications from this component are not expected, absorption leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. Symptoms may include headaches, weakness and dizziness, and can be recognized by the blue color of the lips, fingernails, nose and earlobes. Reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degree of cyanosis needs to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, 1-2 mg/kg body weight over a 5 minute period as a 1% solution may be of value. If elevated methemoglobin persists after an hour, the treatment may be repeated, but the total dose should not exceed 7 mg/kg body weight. Cyanocobalmin (Vitamin B-12), 1 mg intramuscularly is reported to speed recovery. Intravenous fluids and blood transfusions may be indicated in very severe exposures.*

**Carcinogenicity:**

Dibutyl Phthalate is a possible carcinogen according to the EPA and OSHA. None of the remaining components were listed by IARC, NTP, OSHA or ACGIH as carcinogens.

## SECTION 3: COMPOSITION/ INFORMATION OF INGREDIENTS

| <b>COMPONENT:</b>        | <b>CAS NUMBER:</b> | <b>WT/WT %:</b> |
|--------------------------|--------------------|-----------------|
| Dibutyl Phthalate        | 84-74-2            | 40.0 – 70.0     |
| N-Butyl Methacrylate     | 97-88-1            | 40.0 – 70.0     |
| N,N-Dimethyl-p-Toluidine | 99-97-8            | 0.0 – 5.0       |
| Proprietary              | Proprietary        | Proprietary     |

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## SECTION 4: FIRST AID MEASURES

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**Eyes:**

Flush with copious amounts of water for at least 15 minutes.

**Skin:**

If irritation occurs and product is on the skin, rinse thoroughly with water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

**Ingestion:**

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Seek medical attention immediately.

**Inhalation:**

Immediately seek fresh air. Open windows and/or doors to increase ventilation. Seek immediate medical attention.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**Flammable/Explosive Limits:**

Air Vol %: Lower: 2.0, Upper: 8.0

**Flash Point:**

49°C, 120°F

**Method Used:**

No information.

**Autoignition Temperature:**

294°C, 561°F

**Sensitive to Mechanical Impact:**

No.

**Sensitive to Static Discharge:**

Yes.

**Extinguishing Media:**

Chemical Foam, CO<sub>2</sub>, Dry Chemical Powder, Water Spray. NOTE: Water may be ineffective in extinguishing the fire.

**Special Fire Fighting Measures:**

This product is a flammable liquid. When involved in a fire, this product ignites readily and decomposes to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/ impurities may cause pressure to build and/or closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.

**Unusual Fire and Explosion Hazards:**

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reactions generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

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## SECTION 6: ACCIDENTAL RELEASE MATERIALS

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**Process for cleaning and take-up:**

Evacuate the spill area. Maximize ventilation by opening doors and windows. Eliminate all sources of ignition. Use self-contained breathing apparatus and protective clothing, (e.g. goggles and gloves). Dike and absorb or contain the spill with an inert material, such as sand. Use non-sparking tools ONLY and dispose of the material in the proper closed container(s). Contaminated monomer may be unstable, add inhibitor to prevent polymerization.

Wash all affected areas of the skin with warm water and soap. Remove clothing that has been contaminated and wash thoroughly.

**Environmental Precautions:**

Keep spills and cleaning runoffs out of sewers and open bodies of water. Spills on porous surfaces can contaminate the ground water. Dispose of in accordance with Federal, State and Local regulations, or appropriate governing standards.

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## SECTION 7: HANDLING AND STORAGE

### Handling:

#### **Handling advice:**

To be handled by qualified dental professionals.

Follow instructions for use.

After each use, wash hands or exposed skin thoroughly. Do not smoke, eat or drink while using this product.

#### **Fire and explosion protection:**

Store in a cool dry place away from heat, sparks, flame and direct sunlight. Close container after each use. Use explosion-proof equipment. Check inhibitor levels every three months.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines:**

| Chemical Name:           | CAS NUMBER: | Exposure Limits in Air: |                     |
|--------------------------|-------------|-------------------------|---------------------|
|                          |             | OSHA-PELs               | ACGIH-TLVs          |
| Dibutyl Phthalate        | 84-74-2     | 5 mg/m <sup>3</sup>     | 5 mg/m <sup>3</sup> |
| N-Butyl Methacrylate     | 97-88-1     | NE                      | NE                  |
| N,N-Dimethyl-p-Toluidine | 99-97-8     | NE                      | NE                  |
| Proprietary              | Proprietary | NE                      | NE                  |

### Engineering Controls:

#### **Ventilation:**

**Production:** use explosion-proof local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated.

**Professional:** Follow precautions and directions on label.

### Personal Protection:

#### **Respiratory Protection:**

A respirator should be worn whenever workplace conditions warrant its' use. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR § 1910.134 or other appropriate governing standard.

#### **Hand Protection:**

Chemical resistant gloves should be worn when prolonged or repeated skin contact is expected. If necessary, refer to U.S. OSHA 29 CFR § 1910.138, or other appropriate governing standard. Eye wash stations, safety showers or sink basins are recommended.

#### **Eye Protection:**

Safety glasses or chemical splash goggles may be worn, if necessary refer to U.S. OSHA 29 § 1910.133 or other appropriate governing standard. Eye wash stations, safety showers or sink basins are recommended.

#### **Other:**

No special body protection is required, refer to appropriate governing standard(s).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### General description:

**State:** Oily Liquid  
**Odor:** Acrid, Fruity  
**Color(s):** Clear, Pale

### Chemical Properties:

| Designation: | Value: |
|--------------|--------|
|--------------|--------|

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|                                         |                            |
|-----------------------------------------|----------------------------|
| Vapor Pressure                          | 4.9 mm Hg at 20° C/ 68° F  |
| Boiling Point<br>Freezing Point         | 163° C, 325° F<br>ND       |
| Solubility in Water                     | Negligible                 |
| Viscosity                               | 0.92 cps at 25° C/ 77° F   |
| Specific Gravity (H <sub>2</sub> O = 1) | 0.889 g/cc at 25° C/ 77° F |
| Percent Volatile W/W%                   | <70%                       |
| Vapor Density (AIR = 1)                 | >1                         |
| Evaporation Rate (BuAc = 1)             | <1                         |

## SECTION 10: STABILITY AND REACTIVITY

### Stability:

This material is stable until depletion of inhibitor; product will become unstable or reactive.

### Reactivity:

**Hazardous Decomposition Products:** Oxides of carbon when burned.

**Incompatibility:** Heat and ignition sources, aging and contamination. Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

**Hazardous polymerization:** Polymerization may occur.

**Other:** Avoid high temperatures, localized heat sources, oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing. Avoid spills or applications to paint and rubber due to solvent like properties that will cause damage.

## Section 11: Toxicological Information

### **General toxicological information:**

Dibutyl Phthalate: Kidneys, Central Nervous System, Eyes, Male Reproductive System

Methacrylate: Nervous system

N,N-Dimethyl-p-Toluidine: Liver, Central Nervous System, Blood and Skin

For proprietary: None listed.

### Toxicity Data:

|                                  |                    |                |
|----------------------------------|--------------------|----------------|
| <b>Dibutyl Phthalate:</b>        |                    |                |
| Acute Oral (Rat)                 | LD <sub>50</sub> : | 7000 mg/kg     |
| Intraperitoneal (Rat)            | LD <sub>50</sub> : | 6889 µL/kg     |
|                                  |                    |                |
| <b>Methacrylate:</b>             |                    |                |
| Inhalation (Rat)                 | LC <sub>50</sub> : | >2900 ppm – 8H |
| Oral (Rat)                       | LD <sub>50</sub> : | >5000 mg/kg    |
| Skin (Rabbit)                    | LD <sub>50</sub> : | >2900 mg/kg    |
|                                  |                    |                |
| <b>N,N-Dimethyl-p-Toluidine:</b> |                    |                |
| Inhalation (Rat)                 | LC <sub>50</sub> : | 254 ppm/ 4H    |
| Acute Dermal (Rat)               | LD <sub>50</sub> : | >2000 mg/kg    |
| Ingestion (Rat)                  | LD <sub>50</sub> : | 1650 mg/kg     |

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|                         |                    |            |
|-------------------------|--------------------|------------|
|                         |                    |            |
| Trade Secret:           |                    |            |
| Oral (Rat)              | TD <sub>LO</sub> : | 45 gm/kg   |
| Oral (Rat)              | LD <sub>LO</sub> : | 54 gm/kg   |
| Intraperitoneal (mouse) | LD <sub>50</sub> : | 300 mg/kg  |
| Oral (Rat)              | LD <sub>50</sub> : | 7400 mg/kg |

## SECTION 12: ECOLOGICAL INFORMATION

### General ecological information:

Aquatic toxicity is possible, including physical damage or death to aquatic life; do not discharge into drains or the environment.

|                    |                    |               |
|--------------------|--------------------|---------------|
| Dibutyl Phthalate: |                    |               |
| Flathead Minnow    | LC <sub>50</sub> : | 0.92 mg/L/96H |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste disposal of product:

This product contains a Phthalate (UO69) and a Methacrylate Monomer; incinerate liquid and diking material, after addition of excess inhibitor, in accordance with Federal, State, and Local regulations or appropriate governing regulations.

Do not reuse empty drums or containers due to potential hazards. Dispose of all empty containers according to Federal, State, and local or appropriate governing regulations.

## SECTION 14: TRANSPORT INFORMATION

Proper shipping name: RQ, Flammable Liquid, NOS

Hazard class or division: 3

Identification number (UN): 1993

Packing group: III

The transport information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

## SECTION 15: REGULATORY INFORMATION

### Symbols of Danger:

None

### R-Phrase:

R10- Flammable  
R36/37/38 – Irritating to eyes and respiratory system and skin.  
R43 – May cause sensitization by skin contact.  
R50- Very toxic to aquatic systems.  
R61- May cause harm to unborn baby.  
R62- Possible risk of impaired fertility.

### S-Phrase:

S3 – Keep in cool place.  
S7 – Keep container tightly closed  
S9 – Keep container in well ventilated place  
S16 – Keep away from sources of ignition – No Smoking.  
S20 – When using do not eat or drink  
S29 – Do not empty into drains  
S37/39 – Wear suitable gloves and eye/face protection.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S53- Avoid exposure – obtain special instructions before use.  
S61- Avoid release into the environment. Refer to special instructions/ Safety Data Sheets.

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## SECTION 16: OTHER INFORMATION

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### Hazardous Material Identification System (HMIS) Rating:

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Health:                        | 1                                                    |
| Flammability:                  | 2                                                    |
| Reactivity:                    | 2                                                    |
| Personal Protective Equipment: | Gloves and Safety Glasses or Chemical Splash Goggles |

### National Fire Protection Association (NFPA) Hazard Identification Rating:

|               |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 2 |
| Reactivity:   | 2 |

### Warning Codes:

Xi – Irritant  
T – Toxic  
N – Dangerous to the Environment

*All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is being made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor is there any assumed liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.*

# Safety Data Sheet

Chairside Denture Reline Powder

SDS DATE: 04/15/13

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Chairside Denture Reline Powder For Hard and Soft Reliner

**Other Names:** R-CHEM-128, Methacrylate Polymer

**Product Use:** Organic Process Chemical. To be used conjointly for temporary relining of the tissue bearing surface of the acrylic of full and partial removable dentures.

**Supplier:**

Henry Schein, Inc.  
135 Duryea Road  
Melville, NY 11747 USA  
Henry Schein U.K. Holdings Ltd.  
Gillingham ME8 OSB U.K.  
Telephone: (800) 472-4346

**Emergency Information Chemtrec:**  
(800) 424-9300

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## SECTION 2: HAZARDS IDENTIFICATION

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**Routes of Entry:**

Inhalation, Skin, Eye, Ingestion

**Potential Health Acute Effects:**

**Eyes:**

Irritation to the eyes including but not limited to blurred vision, watering and discomfort.

**Skin:**

Repeated contact with skin may cause irritation. Repeated or prolonged use can lead to more severe symptoms such as skin sensitization, symptoms may be delayed.

**Inhalation:**

Irritation may occur.

**Ingestion:**

Possible irritation and/or pain with ingestion includes but is not limited to the mouth, esophagus, respiratory and digestive tracts, vomiting and/ or diarrhea. Seek medical attention immediately and report the amount ingested.

**Potential Chronic Health Effects:**

NE

**Carcinogenicity:**

None

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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| <u>COMPONENT:</u> | <u>CAS NO:</u> | <u>WT%:</u>  |
|-------------------|----------------|--------------|
| Polymer           | 9003-42-3      | 60.0 - 100.0 |
| Benzoyl Peroxide  | 94-36-0        | 0.0 5.0      |

# Safety Data Sheet

Chairside Denture Reline Powder

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## SECTION 4: FIRST AID MEASURES

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**Eyes:**

Flush with copious amounts of water . Seek medical attention immediately.

**Skin:**

If irritation occurs and product is on the skin, rinse thoroughly with water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

**Ingestion:**

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Seek medical attention immediately.

**Inhalation:**

Immediately seek fresh air. Open windows and/or doors to increase ventilation. Seek immediate medical attention.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**Flammable/Explosive Limits:**

No Data

**Flash Point:**

304°C, 580°F

**Method Used:**

No information

**Extinguishing Media:**

Dry Chemical Foam, CO<sub>2</sub>

**Special Fire Fighting Measures:**

Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

**Unusual Fire and Explosion Hazards:**

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Process for cleaning and take-up:**

Evacuate the spill area. Maximize ventilation by opening doors and windows. Eliminate all sources of ignition. Use self-contained breathing apparatus and protective clothing, (e.g. goggles and gloves). Use non-sparking tools ONLY and dispose of the material in the proper closed container(s).

Wash all affected areas of the skin with warm water and soap. Remove clothing that has been contaminated and wash thoroughly.

**Environmental Precautions:**

Keep spills and cleaning runoffs out of sewers and open bodies of water. Spills on porous surfaces can contaminate the ground water. Dispose of in accordance with Federal, State and Local regulations, or appropriate governing standards.

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## SECTION 7: HANDLING AND STORAGE

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**Handling:**

**Handling advice:**

To be handled by qualified dental professionals.  
Follow instructions for use.  
After each use, wash hands or exposed skin thoroughly.

**Fire and explosion protection:**

Store in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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# Safety Data Sheet

Chairside Denture Reline Powder

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## Exposure Guidelines:

| Chemical Name:   | CAS Number: | Exposure Limits in Air |                      |
|------------------|-------------|------------------------|----------------------|
|                  |             | OSHA-PELs              | ACGIH-TLVs           |
| Polymer          | 9003-42-3   | 15 mg/m <sup>3</sup>   | 15 mg/m <sup>3</sup> |
| Benzoyl Peroxide | 94-36-0     | 5 mg/m <sup>3</sup>    | 5 mg/m <sup>3</sup>  |

## Engineering Controls:

### Ventilation:

Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

## Personal Protection:

### Respiratory Protection:

No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR 1910.134 or other appropriate governing standard.

### Hand Protection:

If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, or other appropriate governing standards.

### Eye Protection:

Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or other appropriate governing standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### General description:

State: Powder  
Odor: Faint odor in bulk  
Color(s): Pink

### Chemical Properties:

| Designation:                            | Value:    |
|-----------------------------------------|-----------|
| Vapor Pressure                          | ND        |
| Boiling Point<br>Freezing Point         | ND        |
| Solubility in Water                     | Insoluble |
| Viscosity                               | ND        |
| Specific Gravity (H <sub>2</sub> O = 1) | ND        |
| Percent Volatile W/W%                   | ND        |
| Vapor Density (AIR = 1)                 | ND        |
| Evaporation Rate (BuAc = 1)             | ND        |

## SECTION 10: STABILITY AND REACTIVITY

### Stability:

This material is stable.

# Safety Data Sheet

Chairside Denture Reline Powder

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## Dangerous decomposition products:

Methacrylate Monomer and oxides of carbon when burned.

## Reactivity:

### Conditions to avoid:

Heating above 240°C, 464°F.

### Materials to avoid:

Strong oxidizing agents.

### Hazardous polymerization:

Polymerization will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Toxicity Data:

This product has not been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

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## SECTION 12: ECOLOGICAL INFORMATION

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### General ecological information:

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

### Environmental Fate:

There is no specific data available for this product.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### Waste disposal of product:

Dispose of properly in accordance with Federal, State and Local regulations.

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## SECTION 14: TRANSPORT INFORMATION

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Not classified as a dangerous good

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## SECTION 15: REGULATORY INFORMATION

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### SARA Reporting Requirements:

Not applicable

### SARA Threshold Planning Quantity:

There are specific threshold planning quantities for the components of this product.

### TSCA Inventory Status:

The components of this product are listed on the TSCA inventory.

### Other Federal Requirements:

This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G.

### Other Canadian Regulations:

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List.

### Symbols of Danger:

None

### R-Phrase:

R36/37/38 – Irritating to eyes and respiratory system and skin.  
R43 – May cause sensitization by skin contact.

### S-Phrase:

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Chairside Denture Reline Powder

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S3 – Keep in cool place  
S7 – Keep container tightly closed  
S9 – Keep container in well ventilated place  
S16 – Keep away from sources of ignition – No Smoking.  
S20 – When using do not eat or drink  
S29 – Do not empty into drains  
S37/39 – Wear suitable gloves and eye/face protection.

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## SECTION 16: OTHER INFORMATION

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### Hazardous Material Identification System (HMIS) Rating:

|                                |                                                       |   |
|--------------------------------|-------------------------------------------------------|---|
| Health:                        | 1                                                     |   |
| Flammability:                  | 1                                                     |   |
| Reactivity:                    |                                                       | 0 |
| Personal Protective Equipment: | Gloves and Safety Glasses or Chemical Splash Goggles. |   |

*All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is being made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor is there any assumed liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.*

# Safety Data Sheet

Chairside Denture Reline Primer

SDS DATE: 04/15/13

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Chairside Denture Reline Primer For Hard and Soft Reliner (Monomer)

**Other Names:** R-CHEM-011 Methacrylate Monomer

**Product Use:** Organic Process Chemical. To be used conjointly for temporary relining of the tissue bearing surface of the acrylic of full and partial removable dentures.

**Supplier:**

Henry Schein, Inc.  
135 Duryea Road  
Melville, NY 11747 USA  
Henry Schein U.K. Holdings Ltd.  
Gillingham ME8 OSB U.K.  
Telephone: (800) 472-4346

**Emergency Information Chemtrec:**  
(800) 424-9300

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## SECTION 2: HAZARDS IDENTIFICATION

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**Routes of Entry:**

Inhalation, Skin, Eye, Ingestion

**Potential Health Acute Effects:**

**Eyes:**

Irritation to the eyes including but not limited to blurred vision, watering and discomfort.

**Skin:**

Repeated contact with skin may cause irritation. Repeated or prolonged use can lead to more severe symptoms such as skin sensitization, and organ damage, symptoms may be delayed.

**Inhalation:**

Irritation may occur. Repeated and/or prolonged exposure can cause dizziness, headache and anesthetic effects.

**Ingestion:**

Possible irritation and/or pain with ingestion includes but is not limited to the mouth, esophagus, respiratory and digestive tracts, vomiting and/ or diarrhea. Seek medical attention immediately and report the amount ingested.

**Potential Chronic Health Effects:**

Prolonged or overexposure at near lethal concentrations can cause organ damage

**Carcinogenicity:**

None of the components are known carcinogens.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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| <u>COMPONENT:</u>     | <u>CAS NO.</u> | <u>WT%</u> |
|-----------------------|----------------|------------|
| Methacrylate Monomers | 80-62-6        | 60.0-100.0 |

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## SECTION 4: FIRST AID MEASURES

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**Eyes:**

If product gets in eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**Skin:**

If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

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## Ingestion:

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk immediately. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

## Inhalation:

Immediately seek fresh air. Open windows and/or doors to increase ventilation. Seek immediate medical attention.

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## SECTION 5: FIRE-FIGHTING MEASURES

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### Flammable/Explosive Limits:

Air Vol. %: Lower 2.12, Upper 12.5

### Flash Point:

11.5°C, 52.7°F

### Method Used:

No information.

### Extinguishing Media:

Dry Chemical Foam, CO<sub>2</sub>, Dry Chemical.

### Special Fire Fighting Measures:

This product is a flammable liquid. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.

### Unusual Fire and Explosion Hazards:

Vapors may travel to source of ignition and flash back.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### General Information:

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves).

### Environmental precautions:

Keep spills and cleaning runoffs out of sewers and open bodies of water. Spills on porous surfaces can contaminate the groundwater. Dispose of in accordance with Federal, State and Local regulations.

### Process for cleaning and take-up:

Evacuate the area. Eliminate sources of ignition. Use self-contained breathing apparatus and protective clothing. Dike and absorb with inert material. Transfer to proper containers for disposal, use non-sparking tools. Contaminated monomer may be unstable, add inhibitor to prevent polymerization.

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## SECTION 7: HANDLING AND STORAGE

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### Handling:

#### Handling advice:

To be handled by qualified dental professionals.

Follow the instructions for use.

After each use, wash hands or exposed skin thoroughly. Do not smoke, eat or drink while using this product.

### Storage:

#### Storage advice:

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep containers closed after each use. Ground and bond all containers when transferring.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Exposure Guidelines:

| Chemical Name | CAS # | Exposure Limits in Air |
|---------------|-------|------------------------|
|---------------|-------|------------------------|

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|                             |         | OSHA-PELs             | ACGIH-TLVs            |
|-----------------------------|---------|-----------------------|-----------------------|
| Methyl Methacrylate Monomer | 80-62-6 | 100 mg/m <sup>3</sup> | 100 mg/m <sup>3</sup> |

## Engineering Controls:

### **Ventilation:**

Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release.

## Personal Protection:

### **Respiratory Protection:**

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR 1910.134 or other appropriate governing standard.

### **Hand Protection:**

If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, or other appropriate governing standards.

### **Eye Protection:**

Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or other appropriate governing standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### General description:

State: Liquid  
Odor: Acrid  
Color(s): Clear

### Chemical Properties:

| <u>Designation:</u>                     | <u>Value:</u>                |
|-----------------------------------------|------------------------------|
| Vapor Pressure                          | 28 mm Hg at 20°C             |
| Boiling Point<br>Freezing Point         | 101°C, 214°F<br>-48°C        |
| Solubility in Water                     | Moderate, 1.6 g/100 g @ 20°C |
| Viscosity                               | ND                           |
| Density                                 | 0.949 g/mL @ 15.5°C          |
| Specific Gravity (H <sub>2</sub> O = 1) | 1.1 g/cc at 25°C/ 77°F       |
| Percent Volatile W/W%                   | 99+                          |
| Vapor Density (AIR = 1)                 | 3.5 @ 15.5°C                 |
| Evaporation Rate (BuAc = 1)             | ND                           |

## SECTION 10: STABILITY AND REACTIVITY

### Stability:

The material is unstable. Reactive upon depletion of inhibitor.

### **Dangerous decomposition products:**

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Oxides of carbon when burned.

## **Reactivity:**

### **Conditions to avoid:**

Temperatures above 21°C, 70°F, localized heat sources, oxidizing conditions, freezing conditions, direct sunlight, and ultraviolet radiation, inert gas blanketing.

### **Hazardous polymerization:**

Polymerization may occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Toxicity Data:**

| <b>Methyl Methacrylate:</b> |                    |              |
|-----------------------------|--------------------|--------------|
| Oral (Rat)                  | LD <sub>50</sub> : | >7900 mg/kg  |
| Dermal (mouse)              | LD <sub>50</sub> : | >35500 mg/kg |
| Inhalation (Rat)            | LD <sub>50</sub> : | 7094 ppm/4h  |

## **SECTION 12: ECOLOGICAL INFORMATION**

### **General ecological information:**

Aquatic toxicity is possible, including physical damage and death. Do not discharge into drains or the environment.

| <b>Methyl Methacrylate:</b> |                    |              |
|-----------------------------|--------------------|--------------|
| Flathead Minnows            | LC <sub>50</sub> : | 30 mg/L/96h  |
| Daphnia magna               | EC <sub>50</sub> : | 69 mg/L/48h  |
| Algae                       | LC <sub>50</sub> : | 170 mg/L/96h |

### **Environmental Fate:**

For Methyl Methacrylate:

28 Day Biodegradation Study:

Not readily biodegradable.

COD 88% within 28 days

Inherent Biodegradation:

DOC Removal >95% within 28 days

Adsorption/Desorption:

High mobility in soil

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **Waste disposal of product:**

When discarded it is listed as a hazardous waste by the EPA under RCRA U-162 with reportable quantity (RQ) of 1000 pounds (40 CFR Part 302) After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

## **SECTION 14: TRANSPORT INFORMATION**

**Proper shipping name:** Methyl Methylmethacrylate Monomer, Stabilized  
**Hazard class or division:** 3  
**Identification number:** UN 1247  
**Packing group:** II

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The transport information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

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## SECTION 15: REGULATORY INFORMATION

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|                                          |                                                                                                                                                                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SARA Reporting Requirements:</b>      | Yes                                                                                                                                                                                                                                                                                           |
| <b>SARA Threshold Planning Quantity:</b> | There are specific threshold planning quantities for the components of this product.                                                                                                                                                                                                          |
| <b>TSCA Inventory Status:</b>            | The components of this product are listed on the TSCA inventory.                                                                                                                                                                                                                              |
| <b>Other Federal Requirements:</b>       | This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR.                                                                                                                                                                                             |
| <b>Other Canadian Regulations:</b>       | This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. |

**Symbols of Danger:**  
None

**R-Phrase:**  
R11 – Highly Flammable  
R36/37/38 – Irritating to the eyes and respiratory system and skin.  
R43 – May cause sensitization by skin contact.

**S-Phrase:**  
S3 – Keep in cool place.  
S7 – Keep container tightly closed  
S9 – Keep container in well ventilated place  
S16 – Keep away from sources of ignition  
S20 – When using do not eat or drink  
S24 – Avoid contact with skin  
S29 – Do not empty into drains  
S37/39 – Wear suitable gloves and eye/face protection  
S46 – If swallowed, seek medical advice immediately and show this container or label.

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## SECTION 16: OTHER INFORMATION

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### Hazardous Material Identification System (HMIS) Rating:

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Health:                        | 2                                                    |
| Flammability:                  | 3                                                    |
| Reactivity:                    | 2                                                    |
| Personal Protective Equipment: | Gloves and Safety Glasses or Chemical Splash Goggles |

*All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is being made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor is there any assumed liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.*