HEXION
Specialty Chemicals

# Material Safety Data Sheet

Durite™ SC-1008

## 1. Product and company identification

| | |
|---|---|
| **Product name** | Durite™ SC-1008 |
| **MSDS Number** | 000000000244 |
| **Product Type** | Phenolic Resin |
| **Product use** | Laminating Resin Applications |
| **Manufacturer, Importer, Supplier** | Hexion Specialty Chemicals, Inc.<br>6210 Campground Road<br>Louisville KY 40216<br><br>hazcom@hexion.com |
| **Print date** | 25-FEB-2010 |
| **Telephone** | **For Emergency Medical Assistance**<br>Call Health & Safety Information Services, 1-866-303-6949<br><br>**For Emergency Transportation Information**<br>CHEMTREC US Domestic (800) 424-9300<br>CHEMTREC International (703) 527-3887<br>CANUTEC CA Domestic (613) 996-6666<br><br>For additional health and safety or regulatory information, call 1 888-4-Hexion. |

*The MSDS is not to be used as a specification sheet. For Specific technical information on any of the above products, a sales specification sheet should be obtained from your Hexion representative.*

## 2. Hazards identification

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|---|---|
| **Form** | Liquid |
| **Odor** | Slight phenolic |
| **OSHA/HCS status** | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| **Emergency overview** | WARNING !<br>FLAMMABLE LIQUID AND VAPOR. MAY FORM EXPLOSIVE MIXTURES WITH AIR. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) EFFECTS. |

**Potential acute health effects**

| | |
|---|---|
| **Inhalation** | Can cause central nervous system (CNS) depression. Slightly irritating to the respiratory system. May cause sensitization by inhalation. Can cause central nervous system (CNS) effects. |
| **Ingestion** | Can cause central nervous system (CNS) depression. |

| | |
|---|---|
| **Skin** | Slightly irritating to the skin. May cause sensitization by skin contact. |
| **Eyes** | Severely irritating to eyes. Risk of serious damage to eyes. Direct contact with the eyes can cause irreversible damage, including blindness. |

**Potential chronic health effects**

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| **Chronic effects** | Contains material that can cause target organ damage. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that preexisting respiratory and skin disorders may be aggravated by exposure. Signs and symptoms of chronic phenol poisoning may include vomiting, difficulty in swallowing, diarrhea, lack of appetite, jaundice, fatigue, bleeding or easy bruising and sometimes pain and swelling in the upper right abdomen, changes in urine output or dark urine, pain upon urination or in the lower back, or general edema. Can also cause cardiac damage evidenced by shortness of breath and in severe cases cardiac arrest. Preexisting medical conditions of the heart, kidney, liver, lung, eyes and skin may be aggravated by exposure. |
| **Carcinogenicity** | Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. |
| **Mutagenicity** | No known significant effects or critical hazards. |
| **Teratogenicity** | No known significant effects or critical hazards. |
| **Developmental effects** | No known significant effects or critical hazards. |
| **Fertility effects** | No known significant effects or critical hazards. |
| **Target organs** | Contains material which causes damage to the following organs: kidneys, liver, heart, skin, eyes, central nervous system (CNS), Review Section 2 and 11 for any additional assessments. |

**Over-exposure signs/symptoms**

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|---|---|
| **Inhalation** | Adverse symptoms may include the following: nausea or vomiting, respiratory tract irritation, coughing, headache, drowsiness/fatigue, dizziness/vertigo, wheezing and breathing difficulties, unconsciousness, asthma, cyanosis, motor difficulties, convulsion, confusion, |
| **Ingestion** | Adverse symptoms may include the following: nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, headache, unconsciousness, |
| **Skin** | Adverse symptoms may include the following: irritation, redness, |
| **Eyes** | Adverse symptoms may include the following: pain or irritation, watering, redness, |
| **Medical conditions aggravated by over-exposure** | Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product |

**See section 11 for more detailed information on health effects and symptoms.**

## 3. Composition/Information on ingredients

| Ingredient name | CAS number | % |
|---|---|---|
| Isopropanol | 67-63-0 | **10.0 - 30.0** |
| Phenol | 108-95-2 | **10.0 - 30.0** |
| Formaldehyde | 50-00-0 | **1.0 - 5.0** |

*** Any applicable Canadian trade secret numbers will be listed in Section 15.*

## 4. First aid measures

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Chemical burns must be treated promptly by a physician.

**Skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**

Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. In the event of any complaints or symptoms, avoid further exposure.

**Ingestion**

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first aid personnel**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapor, mist or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

**Notes to physician**

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

**Flammability of the product**

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Extinguishing media**

**Suitable**

Use dry chemical, CO2, water spray (fog) or foam.

**Not suitable**

Do not use water jet.

**Special exposure hazards**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-

exposed containers cool.

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| **Hazardous combustion products** | Decomposition products may include the following materials: carbon oxides, |
| **Special protective equipment for fire-fighters** | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| **Special Remarks on Explosion Hazards** | Liquid and vapor may cause a flash fire or ignite explosively. Vapor is heavier than air and may settle in low places or spread long distances to a source of ignition and flashback. Explosive atmospheres may linger. Closed containers can rupture and release toxic vapors or decomposition products. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions** | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Do not breathe dust, vapor, mist or gas. |
| **Environmental precautions** | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| **Large spill** | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| **Small spill** | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. |

## 7. Handling and storage

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|---|---|
| **Handling** | Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in |

which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Follow US NFPA 30, "Flammable & Combustible Liquids Code", or other national, state and local codes on safe handling of flammable liquids. Train workers in the recognition and prevention of hazards associated with the storage, handling and transfer of flammable liquids in the plant. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not breathe dust, vapor, mist or gas.

**Storage**

Store in an area designated for storage of flammable liquids (See NFPA 30 and OSHA 29 CFR 1910.106). Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

| Ingredient name | Occupational exposure limits |
|---|---|
| Isopropanol | **ACGIH TLV 8-hr TWA**<br>200 ppm<br><br>**ACGIH TLV STEL (15 min)**<br>400 ppm<br><br>**OSHA PEL 8-hr TWA**<br>980 mg/m3 400 ppm |
| Phenol | **ACGIH TLV 8-hr TWA**<br>19 mg/m3 5 ppm<br><br>**OSHA PEL 8-hr TWA**<br>19 mg/m3 5 ppm |
| Formaldehyde | **ACGIH TLV Ceiling**<br>0.37 mg/m3 0.3 ppm<br><br>**OSHA PEL Z2 8-hr TWA**<br>0.75 ppm<br><br>**OSHA PEL Z2 STEL (15 mins)**<br>2 ppm |

**Consult local authorities for acceptable exposure limits.**

| | |
|---|---|
| **Recommended monitoring procedures** | If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. |
| **Engineering measures** | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| **Hygiene measures** | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| **Respiratory** | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| **Hands** | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| **Eyes** | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. |
| **Skin** | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| **Environmental exposure controls** | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Form** | Liquid |
| **Flash point** | 26.67 °C(80.01 °F) Setaflash Closed Cup ASTM D 3828 |
| **Auto-ignition temperature** | 456 °C |
| **Flammable limits** | |
| **Lower:** | 2.9 %(V) |
| **Upper:** | 12.0 %(V) |
| **Color** | Clear, reddish-brown |
| **Odor** | Slight phenolic |
| **pH** | Not applicable |
| **Boiling point** | 98 °C(208 °F) |
| **Freezing Point** | Not applicable |

| | |
|---|---|
| **Relative density** | 1.070 - 1.100 |
| **Vapor pressure** | 28 mm Hg @ 25 °C(77 °F) |
| **Odor threshold** | Not available |
| **Viscosity** | Dynamic- Not applicable |
| **Solubility** | Complete |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Evaporation rate** | 3 (n-Butyl acetate=1) |
| **Vapor density** | 2.1 |

## 10. Stability and reactivity

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|---|---|
| **Stability** | The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur. |
| **Conditions to avoid** | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid exposure - obtain special instructions before use. |
| **Materials to avoid** | Reactive or incompatible with the following materials: oxidizing materials, |
| **Other hazards** | During processing, vapors of phenol, formaldehyde, alcohols, glycols or other solvents may be released. |
| **Hazardous decomposition products** | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11. Toxicological information

**Acute toxicity**
**Product name**
Durite™ SC-1008

| | | |
|---|---|---|
| LD50 Oral | Rat | > 2,001 mg/kg Estimated. |
| LC50 Inhalation | Rat | > 2501 ppm/1 hEstimated. |
| LD50 Dermal | Rabbit | > 2,001 mg/kg Estimated. |
| 16 CFR Part 1500.41 | Rabbit | Slight Skin Irritant |
| 16 CFR Part 1500.42 | Rabbit | Severe Eye Irritant |

**Acute toxicity**
**Ingredient name**

Isopropanol

| | | |
|---|---|---|
| LD50 Oral | Mouse | 3,600 mg/kg |
| LD50 Oral | Rabbit | 6,410 mg/kg |
| LD50 Oral | Rat | 5,000 mg/kg |
| LC50 Inhalation | Rat | 16000 ppm/8 h |
| LD50 Dermal | Rabbit | 12,800 mg/kg |

Phenol

| | | |
|---|---|---|
| LD50 Oral | Rat | 317 mg/kg |
| LD50 Oral | Mouse | 270 mg/kg |
| LD50 Oral | Mammal | 500 mg/kg |
| LC50 Inhalation | Mouse | 0.177 mg/l/4 h |
| LC50 Inhalation | Rat | 0.316 mg/l/4 h |
| LD50 Dermal | Rat | 669 mg/kg |
| LD50 Dermal | Rabbit | 630 mg/kg |

Formaldehyde

| | | |
|---|---|---|
| LD50 Oral | Mouse | 42 mg/kg |
| LD50 Oral | Guinea | 260 mg/kg |

| | | | |
|---|---|---|---|
| | | pig | |
| LD50 | Oral | Rat | 800 mg/kg |
| LC50 | Inhalation | Mouse | 0.454 mg/l/4 h |
| LC50 | Inhalation | Mouse | 0.505 mg/l/2 h |
| LC50 | Inhalation | Rat | 0.578 mg/l/2 h |
| LC50 | Inhalation | Rat | 250 ppm/2 h |
| LD50 | Dermal | Rabbit | 270 mg/kg |

**Other Toxicological Information**

**Carcinogenicity**

**Conclusion/Summary** OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29CFR 1910.1048. Rats chronically exposed to 14 ppm formaldehyde contracted nasal cancer. The National Toxicology Program (NTP) has listed formaldehyde as a probable human carcinogen. The International Agency for Research on Cancer (IARC) has concluded formaldehyde is carcinogenic to humans. Safe handling and use instructions are provided in this MSDS and in the OSHA Formaldehyde Workplace Standard at 29CFR1910.1048. OSHA has identified 0.5 ppm as the "Action Level". Please review and understand the guidance contained in this MSDS and refer to the OSHA Formaldehyde Standard for regulatory requirements that may be applicable to your operation and use. For further information and a review of various studies, go to www.osha.gov/SLTC/formaldehyde, www.iarc.fr and other authoritative websites.

**Classification**

| Ingredient name | | |
|---|---|---|
| Isopropanol | | |
| | ACGIH | Not classifiable as to its carcinogenicity to humans. |
| | IARC | Not classifiable as to its carcinogenicity to humans. |
| | NTP | Not listed |
| | OSHA | Not regulated |
| Phenol | | |
| | ACGIH | Not classifiable as to its carcinogenicity to humans. |
| | IARC | Not classifiable as to its carcinogenicity to humans. |
| | NTP | Not listed |
| | OSHA | Not regulated |
| Formaldehyde | | |
| | ACGIH | Suspected human carcinogen. |
| | IARC | IARC Group 1, carcinogenic to humans |
| | NTP | NTP reasonably anticipated to be carcinogenic |
| | OSHA | OSHA cancer potential |

## 12. Ecological information

**Environmental effects**

No known significant effects or critical hazards.

**Aquatic ecotoxicity**

| Ingredient name | | | |
|---|---|---|---|
| Isopropanol | | | |
| | | Acute LC50 > 1,400 mg/l/96 h | Bluegill |
| | Fresh water | Acute LC50 6,550 mg/l/96 h | Fathead minnow |
| Phenol | | | |
| | Fresh water | Acute LC50 24 mg/l/96 h | Fathead minnow |
| | Fresh water | Acute LC50 31 mg/l/96 h | Guppy |
| | Fresh water | Acute LC50 13.5 mg/l/96 h | Bluegill |

| | | | |
|---|---|---|---|
| Formaldehyde | Fresh water | Acute LC50 24.1 mg/l/4 d | Fathead minnow |
| | Fresh water | Acute LC50 40 mg/l/4 d | Bluegill |
| | Fresh water | Acute LC50 40 mg/l/4 d | Rainbow trout,donaldson trout |

Other adverse effects
No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

**International transport regulations**

| Regulatory information | UN number | Proper shipping name | Classes/*PG | Reportable Quantity (RQ) |
|---|---|---|---|---|
| CFR | 1866 | RESIN SOLUTION, flammable | Class 3 III | |
| TDG | 1866 | RESIN SOLUTION, flammable | Class 3 III | |
| IMO/IMDG | 1866 | RESIN SOLUTION, flammable | Class 3 III | |
| IATA (Cargo) | 1866 | RESIN SOLUTION, flammable | Class 3 III | |

*PG : Packing group

## 15. Regulatory information

**US regulations**

**HCS Classification** Flammable liquid, Irritating material, Sensitizing material, Carcinogen, Target organ effects

**U.S. Federal regulations** **SARA 311/312 Classification** Immediate (acute) health hazard, Delayed (chronic) health hazard, Fire hazard

SARA 313 - Supplier Notification
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.
Isopropanol - 67-63-0 ( 25.00%), Phenol - 108-95-2 ( 18.00%), Formaldehyde - 50-00-0 ( 2.00%).

**SARA 302 Extremely Hazardous Substances** The following components are listed: Phenol, Formaldehyde,

**State regulations** **Massachusetts RTK Substances** The following components are listed: Isopropanol,

Phenol, Formaldehyde,

**New Jersey RTK Hazardous Substances** The following components are listed: Isopropanol, Phenol, Formaldehyde,

**Pennsylvania RTK Hazardous Substances** The following components are listed: Isopropanol, Phenol, Formaldehyde,

**California Prop. 65:** WARNING: This product contains a chemical known to the State of California to cause cancer. Formaldehyde - 50-00-0,

**Canada**

**WHMIS (Canada)** Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** Canadian NPRI: The following components are listed: Isopropanol, Phenol, Formaldehyde,

**International regulations**

**Chemical inventories** Europe inventory All components are listed or exempted.
Australia inventory (AICS) All components are listed or exempted.
China inventory (IECSC) All components are listed or exempted.
Japan inventory (ENCS) All components are listed or exempted.
Japan inventory (ISHL) Not determined.
Korea inventory (KECI) All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC) Not determined.
Philippines inventory (PICCS) All components are listed or exempted.
Canada inventory All components are listed or exempted.
United States inventory (TSCA 8b) All components are listed or exempted.

## 16. Other information

**Hazardous Material Information System III (U.S.A.)**
Health : 2
Flammability: 3
Physical hazards : 0
Chronic : *

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
The customer is responsible for determining the PPE code for this material.

**Prepared by** Product Safety & Regulatory Compliance Group, (614)225-4778
**Date of issue** 11-NOV-2008
**Date of printing** 25-FEB-2010
**Version** 4.3
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