SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material Name : URACRON CY499 E-75
Product Use : Resin Solution for Industrial Coatings
Company : DSM NeoResins
730 Main Street
Wilmington, MA 01887
Telephone : (978) 658-6600
Fax : 
Emergency telephone : 800-424-9300 Medical Emergency

For Chemical Emergency Spill Leak Fire Exposure or Accident Call CHEMTREC Day or Night DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS*

<table>
<thead>
<tr>
<th>CAS No. / NJRTK No.*</th>
<th>Wt %</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>8980P</td>
<td>70.00 - 80.00</td>
<td>Hydroxy Acrylic Resin</td>
</tr>
<tr>
<td>123-86-4</td>
<td>20.00 - 30.00</td>
<td>Butylacetate</td>
</tr>
<tr>
<td>100-42-5</td>
<td>0.10 - 1.00</td>
<td>styrene</td>
</tr>
<tr>
<td>79-41-4</td>
<td>0.10 - 1.00</td>
<td>methacrylic acid</td>
</tr>
</tbody>
</table>

*Ingredients not precisely identified are either proprietary or non-hazardous; the NJRTK number for the proprietary component(s) is 043574982 followed by the 4/5 digitcode above.

SECTION 3. HAZARDS IDENTIFICATION**

**As defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. See Section 8 for exposure guidelines & Section 11 for toxicology and ingredient specific information.

**Emergency Overview**

Clear colorless Liquid; Solvent-like Odor;
FLAMMABLE LIQUID. GASTROINTESTINAL IRRITANT. EYE IRRITANT. SKIN IRRITANT. RESPIRATORY IRRITANT.

Potential Health Hazards
Material Safety Data Sheet

URACRON CY499 E-75

Version 1

Issue Date 01-26-2011

Primary Routes of Entry
Inhalation of vapor, aerosol, or spray mist.
Skin or Eye contact with product, vapor, or spray mist.
Accidental ingestion of product.

Eyes
This product contains a component which is an eye irritant.

Skin
This product may induce skin sensitization after repeated/prolonged contact with human skin.

Ingestion
May cause severe gastrointestinal irritation. In humans, irritation of the mouth, pharynx, esophagus, and stomach can develop following ingestion of this material.

Inhalation
Vapors and/or aerosols of this material will probably irritate mucous membranes, eyes, nose, and respiratory passages.

Chronic Exposure
Alkyl acetates can cause central nervous system depression. Repeated exposure may cause defatting of the skin.

SECTION 4. FIRST AID MEASURES

Inhalation
Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

Skin contact
Wash off of skin with plenty of soap and water. If redness, itching or burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

Ingestion
DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties
Flash point: 23 °C (73 °F) Closed Cup

Lower explosion limit
1.2 %(V)  
Upper explosion limit  
7.5 %(V)  
Extinguishing agents  
Use carbon dioxide, foam, dry chemical, halogenated agents. Waterspray may be used to cool containers, but a water stream may spread flames.

Specific hazards during fire fighting  
Heavy vapors can flow along surfaces to distant ignition sources and flash back.  
Before transferring flammable and combustible materials, ground and bond all containers to prevent static discharge.  
Special protective equipment for fire-fighters  
Wear self-contained breathing apparatus with full facepiece and protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions  
Wear skin, eye, and respiratory protection during cleanup.  
Personal precautions  
Eliminate sources of ignition and ventilate spill area.

Methods for cleaning up  
Contain spill.  
Soak up liquid with inert absorbent and, using non-sparking equipment, shovel into a chemical waste container. Cover container and remove from work area.

SECTION 7. HANDLING AND STORAGE

Handling  
Per NFPA 30, this liquid is classified as Flammable Class IB. Follow procedures specified in the National Fire Protection Association Codes and Standards for handling flammable liquids. Handle in well ventilated area, avoiding heat, sources of ignition, and direct sunlight. Use only non-sparking, bonded and grounded equipment.  
Avoid breathing vapors or aerosols.  
Prevent skin and eye contact.

Requirements for storage areas and containers
Per NFPA 30, this liquid is classified as Flammable Class IB. Keep container tightly sealed. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight, and incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures
Use ventilation adequate to maintain safe levels. Open containers in well ventilated areas to avoid inhalation of accumulated residual monomers or other volatile components which may be present at trace levels.

Eye protection
Eye contact with the material should be avoided through the use of chemical safety glasses or goggles/face shield, selected in regard to exposure potential.

Skin and body protection
Wear gloves, arm covers and apron determined to be impervious under the conditions of use. DSM NeoResins employees use neoprene or nitrile gloves during manufacture and packaging of this product. Remove contaminated clothing and wash before re wearing. Wash separately from other laundry.

Respiratory protection
If needed, use NIOSH certified respirator for organic vapors, mists and fumes.

Hygienic measures
Eyewash station and safety shower in work area.

Occupational
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Source</th>
<th>Type</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylacetate</td>
<td>OSHA Z1</td>
<td>PEL:</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>Recommended exposure limit (REL):</td>
<td>150 ppm 710 mg/m3</td>
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<tr>
<td></td>
<td>NIOSH</td>
<td>Short Term Exposure Limit (STEL):</td>
<td>200 ppm 950 mg/m3</td>
<td></td>
</tr>
<tr>
<td>styrene</td>
<td>OSHA Z1</td>
<td>PEL:</td>
<td>50 ppm 215 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>Time Weighted Average (TWA):</td>
<td>20 ppm 85 mg/m3</td>
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<td></td>
<td>ACGIH</td>
<td>Short Term Exposure Limit (STEL):</td>
<td>40 ppm 170 mg/m3</td>
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<tr>
<td></td>
<td>NIOSH</td>
<td>Recommended exposure limit (REL):</td>
<td>50 ppm 215 mg/m3</td>
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<tr>
<td></td>
<td>NIOSH</td>
<td>Short Term Exposure Limit (STEL):</td>
<td>100 ppm 425 mg/m3</td>
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<tr>
<td></td>
<td>OSHA Z2</td>
<td>Time Weighted Average (TWA):</td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z2</td>
<td>Ceiling Limit Value:</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z2</td>
<td>Maximum concentration: / 5 minutes in any 3 hours</td>
<td>600 ppm</td>
<td></td>
</tr>
<tr>
<td>methacrylic acid</td>
<td>OSHA Z1</td>
<td>PEL:</td>
<td>20 ppm 70 mg/m3</td>
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<tr>
<td></td>
<td>ACGIH</td>
<td>Time Weighted Average (TWA):</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>Recommended exposure limit (REL):</td>
<td>20 ppm 70 mg/m3</td>
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</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>Skin designation:</td>
<td>Can be absorbed through the skin.</td>
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</tr>
</tbody>
</table>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: Liquid
- **Color**: Clear colorless
- **Odor**: Solvent-like
Boiling point: 127 °C (261 °F)
Density: 1.1 g/cm³
Water solubility: (Insoluble)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid exposure to heat or flames.
Materials to avoid: Nitrates.
Acids, alkalis, oxidizing materials.
Hazardous decomposition products: Carbon oxides.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous reactions: Hazardous polymerization is not known to occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Repeated dose toxicity: Exposure to vapors or aerosol may cause eye, nose and throat irritation, weakness, drowsiness and unconsciousness. Butyl acetate may also potentiate the CNS effects of other solvents such as toluene. Prolonged or frequent exposures may lead to defatting (drying) of the skin.

: Styrene is readily absorbed through skin and can induce central nervous system depression, transient cornea injury, and effects on the blood-forming organs such as leukopenia, anemia, and reticulocytosis. Prolonged skin contact can cause drying and mild chemical burns.

Carcinogenicity: Styrene: The International Agency for Research on Cancer (IARC) reviewed several oral carcinogenicity bioassays on styrene and styrene oxide, an in-vivo metabolite of styrene. IARC classifies styrene as Group 2B, i.e., the agent (styrene) is possibly carcinogenic to humans. IARC acknowledges that the
epidemiologic evidence for carcinogenicity of styrene in humans is 'inadequate' and in animals is 'limited', but that the evidence for carcinogenicity to animals is 'sufficient' for styrene oxide. Because ingestion is not a relevant route of occupational exposure, the carcinogenic risk to persons in the workplace is likely to be negligible when adequate standards of industrial hygiene are maintained.

Carcinogenicity:

<table>
<thead>
<tr>
<th>Regulatory List</th>
<th>Chemical</th>
<th>Category / Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTP</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>IARC</td>
<td>styrene</td>
<td>2B / Possible carcinogen.</td>
</tr>
<tr>
<td>OSHA</td>
<td>N.D.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12. ECOLOGICAL INFORMATION

Additional ecotoxicological remarks: No data.

Environmental fate: No data.

Other: No data.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal method: Discarded product is a hazardous waste under RCRA. Dispose of in a facility permitted for hazardous waste.

Container disposal: May contain explosive vapors. Keep away from heat, sparks and flames. Do not weld or use a cutting torch on or near container. Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

SECTION 14. TRANSPORT INFORMATION
Proper shipping name: UN1866, Resin Solution, 3, PGIII

SECTION 15. REGULATORY INFORMATION

TSCA (TSCA Substances Control Act): All components are on the TSCA Chemical Substances Inventory.

CEPA (Canadian Environmental Protection Act): All components are on the DSL (Domestic Substances List).

SARA Title III (Emergency Planning and Community Right-To-Know Act) 313 Reportable Ingredients: Styrene

SECTION 16. OTHER INFORMATION

Further information:

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.*

HMIS Rating
Health : *2
Fire : 3
Reactivity : 0

*This information is intended solely for the use of individuals trained in the particular hazard rating system. **See appropriate MSDS section.

The information herein is given in good faith but no warranty, expressed or implied, is made.

This MSDS was prepared by the Regulatory Affairs Group of DSM NeoResins Inc. in Wilmington, MA. For further questions, call during regular business hours (978) 658-6600.