

# Cray Valley USA, LLC

## Material Safety Data Sheet

Product: Ricon 100  
MSDS ID: 100

Revised Date: 12-21-2009

### Section I - GENERAL

#### **Manufacturer:**

Cray Valley USA, LLC  
Oaklands Corporate Center  
468 Thomas Jones Way  
Exton, Pennsylvania 19341

Emergency phone number:  
800/424-9300 (CHEMTREC)

Product information:  
610/363-4100

#### **Product Identification**

Trade Name: Ricon® 100  
CAS#: 9003-55-8  
Chemical Name &  
Synonyms: Butadiene-Styrene Copolymer

Chemical Family: Copolymer, Butadiene-Styrene

Formula: Complex Polymeric

DOT Hazardous Materials Proper Shipping Name: Not Regulated  
DOT Hazard Class: Not Regulated

### SECTION II – SUMMARY OF HAZARDS

HMIS: Health 1 Flammability 1 Activity 1 Other **None**

Physical Hazards: Slightly combustible liquid

Acute Health Effects: Inhalation – no evidence of hazard  
(short term) Skin – may be slight skin irritant  
Ingestion hazard – may be slight ingestion hazard  
Eye irritation – no data, mild eye irritation possible

Chronic Health Effects: No chronic hazards have been observed  
(long term)

This product is NOT listed under: National Toxicology Program (NTP)  
Annual Report on Carcinogens  
International Agency for Research on Cancer (IARC) Monographs

**Regulatory Information:**

TSCA: All ingredients of this product appear on the TSCA inventory.

SARA Title III-Section 313: This product does not contain a toxic chemical in excess of 1% of the mixture (.1% if a listed carcinogen).

**International Status**

|                      |                       |
|----------------------|-----------------------|
| Australia (AICS):    | included on inventory |
| Canada (DSL):        | included on inventory |
| China (CECS):        | included on inventory |
| Europe (EINECS):     | polymer               |
| Japan (ENCS):        | included on inventory |
| Korea (ECL):         | included on inventory |
| Philippines (PICCS): | included on inventory |

**SECTION III – PHYSICAL AND CHEMICAL DATA**

|                                      |   |
|--------------------------------------|---|
| Boiling Point (°F):<br>(long term)   | No defined boiling point – decomposes above 475° by polymerization. Cracks into gaseous and liquid products above 800°. |
| Vapor Pressure:                      | very low  |
| Vapor Density:                       | Not determined  |
| Solubility in Water:                 | Nil   |
| Appearance and Odor:                 | Viscous, colorless to amber liquid, mild hydrocarbon odor.  |
| Viscosity:                           | AP 40,000 cps at 45C/113F   |
| Specific Gravity (H <sub>2</sub> O): | <1.0  |
| % Volatile by Volume:                | <1.0  |
| Evaporation Rate:                    | Very low  |
| Freezing Point:                      | Not determined  |
| Conditions to Avoid:                 | Oxidizing conditions, extreme temperatures  |
| Materials to Avoid:                  | Strong oxidizers, strong acids  |

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

|                                   |   |
|-----------------------------------|---|
| Flash Point:                      | > 250° F (COC)  |
| Extinguishing Media:              | Foam or water spray, CO <sub>2</sub> , dry chemical, water  |
| Special Fire Fighting Procedures: | Keep drums cool with water from hose.   |
| Unusual Fire & Explosion Hazards: | Will tend to polymerize thermally at temperatures above 400° F (200° C). Once initiated, the reaction generates sufficient heat to continue spontaneously. Heat from fire can generate flammable vapors. Such fires are very smoky. Closed drums can rupture in a fire causing flame to spread, increasing risk of burns. Personal contact with hot liquid after a fire can cause severe burns due to high temperature. Notify authorities if liquid enters sewer or public waters. |

**SECTION V – HEALTH HAZARDS**

Summary of Acute Hazards: Slight health hazards – see below for route-specific details.

**ROUTE OF EXPOSURE****SIGNS AND SYMPTOMS**

Inhalation: No appropriate human or animal health effects data is known to exist.

|                             |   |
|-----------------------------|---|
| Eye Contact:                | May cause minor eye irritation.   |
| Skin Contact:               | May produce skin irritation.  |
| Ingestion:                  | No significant signs or symptoms indicative of any adverse health hazards are expected to occur as a result of ingestion. |
| Summary of Chronic Hazards: | No chronic health hazards have been found to be associated with this material.  |
| Special Health Effects:     | No additional medical information found.  |

## SECTION VI – REACTIVITY DATA

|                                   |  |
|-----------------------------------|--|
| Stability:                        | Stable   |
| Condition to Avoid:               | Keep away from excessive heat, avoid long exposure above 190°F.                                  |
| Incompatibility:                  | Incompatible with peroxides and many reactive materials.   |
| Hazardous Decomposition Products: | Small quantities of butadiene and styrene, along with other lower molecular weight hydrocarbons. |
| Hazardous Polymerization:         | May occur when heated above 400°F  |

## SECTION VII – PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES

|                                    |  |
|------------------------------------|--|
| Respiratory:                       | No special respiratory protection equipment is recommended under anticipated conditions of normal use with adequate ventilation.   |
| Eye:                               | Eye protection such as chemical splash goggles and/or face shield is recommended when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.   |
| Skin:                              | Depending on the conditions of use, gloves, apron, boots, head and face protection is recommended. Equipment should be cleaned thoroughly after each use.  |
| Engineering Controls:              | No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.  |
| Other Hygienic and Work Practices: | Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water. No special work practices are needed beyond the above recommended actions under anticipated condition of normal use. |

## SECTION VIII – OCCUPATIONAL EXPOSURE LIMITS

No established standards

## SECTION IX – EMERGENCY AND FIRST AID

|             |   |
|-------------|---|
| Inhalation: | Not expected to present a significant inhalation hazard under anticipated conditions of normal use. |
|-------------|---|

Eye Contact: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persists.

Skin Contact: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. Wipe off resin with dry or oily rag. Baby oil will remove stickiness, as will waterless cleaner.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

Emergency Medical Treatment Procedures: After adequate first aid, no further treatment is required unless symptoms reappear. Treat symptomatically.

**SECTION X – SPILL AND DISPOSAL**

Precautions if Material is Spilled or Released: Stop release. Prevent flow to sewers/public waters. Restrict water use for cleanup. Slippery walking/spread granular cover. Impound/recover large land spill. Soak up small spill with inert solids. Use suitable disposal containers. On water, material may float or sink, may biodegrade. Contain/minimize dispersion/collect. Disperse residue to reduce aquatic harm. Report per Reg. Requirements.

Waste Disposal Methods: Use registered transporters. May be incinerated for energy recovery. Follow all local, state and Federal regulations when disposing.

**SECTION XI – COMPONENTS**

(This may not be a complete list of components.)

|                              | <u>CAS #</u> | <u>COMPOSITION AMT #</u> |
|------------------------------|--------------|--------------------------|
| Butadiene-Styrene Copolymer: | 9003-55-8    | 100%                     |

**SECTION XII – ADDITIONAL PRECAUTIONS**

Handling, Storage & Decontamination Procedures: Liquid material is slippery – remove small leaks/spills from walking surface with solid absorbents. Use caution to avoid falls causing serious injury. Store away from heat, sparks, open flames and strong oxidizing agents. Avoid overheating which may adversely affect quality or overpressure container(s). Follow standard plant decontamination operations.

General Comments: Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Do not use electrical drum heaters without reliable upper temperature control. If heated too hot (above 400° F), a run-away polymerization may occur. Steam drum heaters are recommended.

**DISCLAIMER OF LIABILITY**

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