

# Cray Valley USA, LLC

## Material Safety Data Sheet

Product: RICON 160  
MSDS ID: 160

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<sup>®</sup> 160  
CAS#: 9003-17-2/000142-82-5  
Chemical Name &  
Synonyms: 1,2 Polybutadiene-homopolymer in solution

Chemical Family: Butadiene homopolymer

Formula: Complex Polymeric

DOT Hazardous Materials Proper Shipping Name: Resin solution, flammable  
UN Number: UN 1866  
DOT Hazard Class: Class 3, Flammable Liquid  
Packing Group: II

### SECTION II – SUMMARY OF HAZARDS

HMIS: Health **2** Flammability **3** Activity **1** Other **None**

Physical Hazards: Flammable liquid and vapor

Acute Health Effects: **Inhalation** – excessive concentration of vapor may cause dizziness, nausea, exhilaration, muscular in coordination, stupor and unconsciousness, in increasing order of severity.  
**Skin irritation**-may be slight skin irritant. Repeated or prolonged contact with the skin cause defatting and lead to dermatitis.  
**Ingestion hazard – do not induce vomiting.** Obtain medical help as soon as possible. Treat as for heptane ingestion.  
**Eye irritation** – no data, mild eye irritation possible

1,3 butadiene monomer has been determined to be a suspected carcinogen. Tests have shown that the polybutadiene resins contain less than the detection limit of .04 µg/g of monomer.

Chronic Health Effects: No chronic hazards have been observed

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).

California Proposition 65: This product contains trace quantities of a substance(s) known to the state of California to cause cancer (butadiene, vinylcyclohexene).

### SECTION III – PHYSICAL AND CHEMICAL DATA

Boiling Point (°F):	209°F
Vapor Pressure:	40mm @ 20°C
Vapor Density:	> 1
Solubility in Water:	Insoluble
Appearance and Odor:	Clear to hazy, colorless to amber viscous liquid, mild hydrocarbon odor
Specific Gravity (H <sub>2</sub> O):	< 1.0
% Volatile by Volume:	50
Evaporation Rate:	0.3
Freezing Point:	Not determined
Conditions to Avoid:	Oxidizing conditions, extreme temperatures. Avoid long storage above 90°F.
Materials to Avoid:	Keep out of contact with peroxides and other free radical catalysts, strong acids
Hazardous Decomposition Products:	Small quantities of butadiene, along with carbon monoxide and carbon dioxide, may be released during a fire.

### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: + 25° F (TCC)

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:	Heptane solvent may cause dizziness, nausea, muscular incoordination. Stupor and unconsciousness may result with long exposure. Move exposed person to fresh air at once and keep warm. Get medical attention promptly.
Eye Contact:	Wash immediately with copious amount of water. If irritation persists, seek medical attention.
Skin Contact:	Remove any soaked clothing and wash skin with mild soap or detergent. If irritation persists, seek medical attention. Repeated or prolonged contact with skin may cause defatting and lead to dermatitis. 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. <b>Do not induce vomiting.</b> Seek medical attention. Treat symptomatically. See heptane.
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: Hazardous Decomposition	Incompatible with peroxides and many reactive materials.

Products: Small quantities of butadiene, along with carbon monoxide and carbon dioxide, may be released during a fire.  
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. If vapor concentration exceeds 400 ppm, use chemical cartridge respirator with organic vapor cartridges.

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: Good positive ventilation is recommended under anticipated conditions of normal use.

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

A PEL or TLV has not been established for this product as a whole

Heptane: OSHA TWA = 500 ppm  
ACGIH TWA = 400 ppm  
ACGIH STEL = 500 ppm

## SECTION IX – EMERGENCY AND FIRST AID

Inhalation: Move exposed person to fresh air at once and keep warm. Administer oxygen to help dissipate effects. If not breathing, apply artificial respiration. Get medical attention promptly.

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: Do not induce vomiting. Seek medical attention. Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Aspiration may cause a chemical pneumonia.

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

## SECTION X – SPILL AND DISPOSAL

Precautions if Material is Spilled or Released: Stop release. Remove all sources of ignition. 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>
Heptane:	142-82-5	40%
Butadiene-homopolymer	9003-17-2	60%

## 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.

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