

Cray Valley USA, LLC

Material Safety Data Sheet

Product: Ricon@100HS
MSDS ID: S-002657

Revised Date: 04-14-2009

01. GENERAL INFORMATION

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

GENERIC NAME

Butadiene-Styrene Copolymer dispersed on
hydrated amorphous silica

DOT PROPER SHIPPING NAME

Not regulated

UN/NA NUMBER

N/AP

DOT HAZARD CLASS

Not regulated

02. SUMMARY OF HAZARDS

WARNING

PHYSICAL HAZARDS: May form combustible/explosive dust-air mixtures

ACUTE HEALTH EFFECTS: Suspect slight eye irritation hazard
(SHORT-TERM) Suspect slight skin irritation hazard
Suspect respiratory tract irritation hazard
Suspect slight ingestion hazard
Not expected to be a skin sensitization hazard
Not expected to be toxic by skin absorption

CHRONIC HEALTH EFFECTS: See Supplement section of MSDS for available data.
(LONG-TERM)

03. COMPONENTS

COMPONENT NAME	CAS NUMBER	% COMPOSITION BY (WT.)
Butadiene-Styrene copolymer	Proprietary	Up to 70
Amorphous silica	Proprietary	Up to 50

04. PHYSICAL AND CHEMICAL DATA

BOILING POINT pH
No defined boiling point - N/AP
decomposes above 475F by polymerization.
MELTING POINT DRY POINT

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N/DA	N/AP
SPECIFIC GRAVITY (H2O=1 at 39.2F) 1.14 -1.18	VOLATILE CHARACTERISTICS LT 1.0
VISCOSITY UNITS, TEMP. N/AP	SOLUBILITY IN WATER Negligible
VAPOR PRESSURE N/DA	STABILITY Stable
VAPOR SP GR (AIR=1 at 60 - 90F) N/DA	HAZARDOUS POLYMERIZATION Will occur above 400F

APPEARANCE AND ODOR

White, non-dusting powder with mild hydrocarbon odor

CONDITIONS AND MATERIALS TO AVOID

Heat, sparks, open flames and other ignition sources; avoid long exposure above 190F.

Acids, bases, oxidizing agents. Contact with bases and strong oxidizing agents may cause low energy release.

HAZARDOUS DECOMPOSITION PRODUCTS

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

05. OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE	SOURCE	TYPE	VALUE
Nuisance particles	OSHA	Total dust	15 mg/m3
		Respirable fraction	5 mg/m3

06. FIRE AND EXPLOSION

FLASH POINT METHOD= (COC) >121C/250F
AUTOIGNITION TEMP. METHOD= N/DA

FLAMMABLE LIMITS (% VOLUME IN AIR)

LOWER: N/DA UPPER: N/DA

FIRE AND EXPLOSION HAZARDS

When mixed with air and exposed to an ignition source, sufficient dust may become an explosion hazard. Use good housekeeping practices to avoid rendering dust airborne and prevent electrostatic charge formation during transfer and use of this material. Ensure that all equipment and containers are adequately grounded. Vapors generated from overheating/decomposition may be flammable and may cause fire/explosion if source of ignition is present.

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.

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EXTINGUISHING MEDIA

Dry chemical
CO2
Foam
Water spray/water fog for cooling containers

SPECIAL FIREFIGHTING PROCEDURES

Do not enter fire area without proper protection. See Section 4 -- decomposition products possible. Fight fire from safe distance/protected location. Apply extinguishing media carefully to prevent frothing or steam explosion. Water may be ineffective for fighting fire due to material's low solubility. However, water spray/fog may be used to cool containers. Avoid contact with molten product to prevent serious burns. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Notify authorities if liquid enters sewer/public waters.

07. HEALTH HAZARDS

ROUTES OF EXPOSURE

INHALATION -- PRIMARY ROUTE

Overexposure may cause irritation to the respiratory tract and to other mucous membranes.

EYE CONTACT -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause slight eye irritation.

SKIN ABSORPTION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is not expected to be a health hazard by skin absorption.

SKIN IRRITATION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight skin irritant. This material is not expected to cause skin sensitization (allergic skin reaction) based on available test data.

INGESTION

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight ingestion hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No additional medical information found.

08. PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

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NIOSH/MSHA approved dust or mist respirator should be used if airborne particulate is generated when handling this material.

EYE PROTECTION

Dust service goggles should be worn to prevent mechanical injury to eyes due to airborne particles which may be associated with this product.

SKIN PROTECTION

Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

ENGINEERING CONTROLS

Provide local exhaust or general room ventilation to minimize exposure to dust. If mechanical ventilation is used, electrical systems should conform to National Electric Code (NFPA 70); electrical equipment must be suitable for the classification of the area where it is installed. Guidance on area classification can be found in NFPA 499.

OTHER HYGIENIC PRACTICES

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER 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.

09. EMERGENCY AND FIRST AID

INHALATION

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

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 persist.

SKIN CONTACT

Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effects or irritation develops.
Wash clothing before reuse.

INGESTION

If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

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EMERGENCY MEDICAL TREATMENT PROCEDURES

Treat symptomatically.

10. SPILL AND DISPOSAL

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Spilled or released material poses a dust explosion hazard if it becomes airborne in the presence of an ignition source. Extinguish all ignition sources. Avoid generating dust. Use protective equipment during cleanup. On land, vacuum, using equipment which avoids ignition risk, and place in suitable disposal containers. On water, contain/minimize dispersion/collect. May contaminate water supplies. Report per regulatory requirements. Prevent entry into sewers, basements and confined areas. Dike if needed.

WASTE DISPOSAL METHODS

This product is not listed as a hazardous waste. To the best of our knowledge, this product does not meet the criteria of a RCRA hazardous waste when discarded in its purchased form (see 40 CFR 261). However, under RCRA it is the responsibility of the user of a product to determine at the time of disposal whether the product meets any of the criteria of a hazardous waste. This is because the manner in which a product is used, processed, etc. may alter it so that it becomes a hazardous material. Comply with federal/state/local regulations for solid waste disposal. Incinerate or landfill solids at permitted sites. Use registered transporters.

11. ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PROCEDURES

Store product in a cool, dry place away from acids and strong oxidizing agents. Store at temperatures below 100F. Keep product away from direct sunlight, excessive heat, sparks, open flame, and other ignition sources. Keep containers tightly closed and prevent contamination with foreign materials. For optimum results, use within 6 months of receipt. This product is not expected to present an explosion hazard during normal transportation and storage operations. However, when dispersed in air and subject to sufficient energy of ignition, it may pose a dust explosion hazard. Minimize the potential for dust explosion by eliminating/controlling ignition sources (bond and ground) and by using good housekeeping practices during storage, transfer, handling and use to avoid excessive dust accumulation. Electrical equipment must be grounded and conform to the National Electric Code. In instances where this material is bulk conveyed, or where processing may result in a dusty atmosphere, refer to the latest edition of the National Fire Protection Association (NFPA) 654 publication, "Standard for the Prevention of Fire & Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries" for complete discussion of dust explosion prevention and control measures.

DECONTAMINATION PROCEDURES

Follow standard plant procedures or supervisor's instructions for decontamination operations.

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12. LABEL INFORMATION

USE STATEMENT

FOR INDUSTRIAL USE ONLY

SIGNAL WORD

WARNING

PHYSICAL HAZARDS

MAY FORM COMBUSTIBLE/EXPLOSIVE DUST-AIR MIXTURES

PRECAUTIONARY MEASURES

DO NOT EXPOSE TO HEAT, SPARKS, OPEN FLAME, OR OTHER IGNITION SOURCE.

AVOID ACCUMULATION OF DUST IN ENCLOSED SPACE.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID BREATHING PARTICULATE/DUST/VAPORS/MISTS.

USE WITH ADEQUATE VENTILATION/PERSONAL PROTECTIVE EQUIPMENT.

WASH THOROUGHLY AFTER HANDLING.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

KEEP CONTAINER IN COOL, DRY, WELL VENTILATED AREA.

CONTAINER SHOULD BE GROUNDED.

EMPTY CONTAINER RETAINS VAPOR AND PRODUCT RESIDUE. OBSERVE ALL SAFEGUARDS UNTIL PRODUCT IS CLEANED OR DESTROYED.

BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS).

13. SUPPLEMENT

NPCA HMIS RATING

Health	1
Flammability	2 (dust)
Reactivity	1
Personal protection**	D

**Respiratory protection may be necessary depending on conditions of use.

CHRONIC HEALTH EFFECTS DATA

No chronic health effects data are available for this product as a whole. However, data exists for one of its components.

Hydrated amorphous silica:

An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time span of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures.

Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/cu.m. per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended.

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Sartomer recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

IARC reviewed the data on amorphous silica in 1996 and concluded there was inadequate evidence. from both epidemiology and experimental studies that amorphous silica is a carcinogenic risk factor. The organization concluded that amorphous silica is in Group 3.

REGULATORY INFORMATION

TSCA STATUS

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

TSCA Section 12(b):

TSCA Section 12(b) - Export Notification: This product does not contain any chemicals at concentrations subject to Section 12(b) export notification.

CALIFORNIA PROPOSITION STATUS

California Proposition 65 Information: This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

Toluene, CAS# 108-88-3, <500ppm
1,3-Butadiene, CAS# 106-99-0, <500ppm

INTERNATIONAL STATUS

Australia (AICS):	included on inventory
Canada (DSL):	included on inventory
China (IECSC):	included on inventory
Europe (EINECS):	polymer/EINECS
Japan (ENCS):	included on inventory
Korea (ECL):	included on inventory
New Zealand (NZIoC):	included on inventory
Philippines (PICCS):	included on inventory
Switzerland:	not included on inventory

*Note - qualifiers and codes used in this MSDS

EQ = Equal; AP = Approximately; LT = Less Than; GT = Greater Than;
TR = Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable
Information Found; N/DA = No Data Available

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14. DISCLAIMERS

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).