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MATERIAL SAFETY DATA SHEET

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SECTION I - NAME & HAZARD SUMMARY

Material name: A C R I T A M E R 9 3 4 P Dated: 04/06/88
 CTFA name: Carbomer 934P Update: 07/19/88
 (L.N.A.)

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical hazards: None
 Health hazards: See Section VI
 Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION II - INGREDIENTS % TLV (ACGIH)

CAS No.: 9003-01-4 Acritamer 934P
 79-10-7 Residual Acrylic Acid < 0.1
 107-06-2 Residual EDC < 0 ppm

Ingredients not precisely identified are proprietary and nonhazardous. All ingredients appear on the EPA TSCA Inventory. Values are not product specifications.

> = greater than < = less than ap = approximately

SECTION III - PHYSICAL DATA

Boiling point: N/A
 Vapor pressure: < 1
 Vapor density: > 1
 Solubility in water: Appreciable
 pH @ 0.5% at 25 degrees C.: 2.7 - 3.3
 Specific gravity: 1.41
 % Volatile by volume: < 2.0%
 Appearance and odor: White fluffy powder, slight acetic odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash point (and method): Not known
 Autoignition temperature: 520 degrees C. of dust cloud (U.S. Bureau of Mines, 1958)
 Flammable limits (STP): See Explosion Hazards below
 Extinguishing media: Water, ABC dry powder, protein type air foams
 Special Fire fighting protective equipment:
 Should use positive pressure self-contained breathing apparatus
 Unusual fire and explosion hazards:
 Dust explosion potential (U.S. Bureau of Mines 1958):
 -Lower explosion limit 0.325 oz/ft³
 -Maximum rate of pressure rise 5,500 psi @ 0.5 oz/ft³
 -Maximum explosion pressure 70 psi @ 0.5 oz/ft³
 -Ignition temperature of dust cloud 520 degrees C. (968 degrees F.)
 Implement standard safety precautions for handling finely divided organic powders. Eliminate likely sources of ignition, such as static buildup. Maintain good housekeeping. Provide adequate ventilation. Properly maintain and operate dust control devices. All equipment should be properly bonded and grounded.

SECTION V - REACTIVITY DATA

Stability: Stable
Incompatibility (materials to avoid): Ammonia, sodium hydroxide,
potassium hydroxide, or strongly
basic amines. These materials
may generate intense heat with
the resin.
Hazardous Polymerization: Will not occur

SECTION VI - HEALTH HAZARD ASSESSMENT

General:

Dust cloud
TLV 5 mg/cu meter

Ingestion:

Not determined

Eye contact:

May cause eye irritation

Skin contact:

May cause skin irritation

Skin absorption:

Not detected

Inhalation:

Animal studies suggest that chronic (repeated) inhalation of high
dust levels may result in the development of pulmonary fibrosis.

Other effects of overexposure:

None detected

First aid procedures:

Skin: Remove contaminated clothing. Wash the affected area with
plenty of soap and water. If irritation develops, call a
physician.

Eyes: Immediately flush eyes with plenty of physiological saline
for five minutes or with water for 15 minutes while holding
eyelids open, then call a physician.

Ingestion: Not determined

(Never give anything by mouth to an unconscious person).

Inhalation: Remove to fresh air. If cough persists, see a
physician.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Vacuum or sweep into closed container for reuse or disposal. Use care to avoid dust generation. Wear a NIOSH respirator approved for nuisance dust if conditions exist where dust is possible. Do not flush chemical into public sewer or water system. Avoid contact with water because a very slippery film will form. Break down for cleanup any film with salt water or detergent solution.

Disposal method:

Remove to landfill or incinerate in accordance with Federal, State, and Local Regulations.

Container disposal:

Remove to landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

TLV or suggested control value:

Keep concentration below 5 mg/cu meter

Ventilation:

Efficient mechanical exhaust system

Respiratory protection (specify type):

Wear NIOSH respirator approved for nuisance dust
Comply with OSHA 1910.134 (29 CFR)

Protective clothing:

Wear protective gloves

Eye protection:

Wear monogoggles suitable for keeping dust out of the eyes

Other protective equipment:

None

SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling or storing:

Avoid breathing dust or vapors. Do not get in eyes. Open handle, and use under well-ventilated conditions. Wash thoroughly after handling. Always wash-up before eating, smoking, or using toilet facilities. Keep container tightly closed to avoid moisture pick-up. Store in a cool, dry place.

Implement standard safety precaution for handling finely divided organic powders. Eliminate likely sources of ignition, such as static buildup. Maintain good housekeeping. Provide adequate ventilation. Properly maintain and operate dust control devices. All equipment should be properly bonded and grounded.

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