

M A T E R I A L S A F E T Y D A T A S H E E T**Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400**

Product Code: 13652

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Product Name: TYRIN (R) 3615 CHLORINATED POLYETHYLENE RESIN

Effective Date: 06/08/90 Date Printed: 02/05/91

MSDS:003081

1. INGREDIENTS: (% w/w, unless otherwise noted)

HD chlorinated polyethylene, containing	
20-50 wt %* chlorine	CAS# 064754-90-1 Balance
Calcium carbonate	CAS# 000471-34-1 1.5-5.0%
Talc (nonfibrous)	CAS# 014807-96-6 1.0-4.0%

*Refer to the Technical Data Sheet for specific product information

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: Not applicable
VAP. PRESS: Not applicable
VAP. DENSITY: Not applicable
SOL. IN WATER: Nil
SP. GRAVITY: Approximately 1.2*

APPEARANCE: Off-white powder.
ODOR: No odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Not applicable
METHOD USED: Not applicable

FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable

EXTINGUISHING MEDIA: Water fog, foam, alcohol foam, CO2, dry chemical.

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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE & EXPLOSION HAZARDS: Fines can create possible dust explosion hazard. Keep dust clouds away from possible ignition sources.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Avoid high temperatures - HCl gas evolved.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) No data available.

HAZARDOUS DECOMPOSITION PRODUCTS: HCl gas.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Sweep up and discard.

DISPOSAL METHOD: Burn in an approved industrial incinerator or bury in an approved industrial landfill in accordance with applicable federal, state, and local regulations.

6. HEALTH HAZARD DATA:

EYE: Solid or dust may cause irritation or corneal injury due to mechanical injury. Thermal degradation of the resin may generate hydrogen chloride gas at concentrations which may cause eye and respiratory irritation.

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6. HEALTH HAZARD DATA: (CONTINUED)

SKIN CONTACT: Essentially nonirritation to skin. Mechanical injury only.

SKIN ABSORPTION: Skin absorption is unlikely due to physical properties.

INGESTION: Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be very low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: Dust may cause irritation to upper respiratory tract. Thermal degradation of the resin may generate hydrogen chloride gas at concentrations which may cause eye and respiratory irritation.

SYSTEMIC & OTHER EFFECTS: This product contains nonfibrous talc which, if breathed, is capable of causing mild respiratory effects which may or may not cause symptoms such as coughing or difficulty in breathing. Repeated ingestion of calcium carbonate by humans has not resulted in known significant effects.

CANCER INFORMATION: Did not cause cancer in long-term animal studies (nonfibrous talc).

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus (talc).

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Results of in vitro ('test tube') mutagenicity tests have been negative (talc). Result of mutagenicity tests in animals have been negative (talc).

7. FIRST AID:

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7. FIRST AID:

EYES: Irrigate immediately with water for at least 5 minutes; mechanical effects only.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): Calcium carbonate: ACGIH TLV is 10 mg/m³. OSHA PEL is 15 mg/m³ total dust, 5 mg/m³ respirable. Talc: (containing no asbestos): ACGIH TLV and OSHA PEL are 2 mg/m³, respirable dust. Hydrogen chloride: ACGIH TLV and OSHA PEL are 5 ppm Ceiling. Hydrogen chloride may be generated under thermal degradation conditions.

VENTILATION: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

EYE PROTECTION: Safety glasses should be sufficient for most operations; however, for dusty operations wear chemical goggles. If vapor exposure causes eye discomfort, use a full-face

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8. HANDLING PRECAUTIONS: (CONTINUED)

respirator.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Practice reasonable care and caution.

MSDS STATUS: Revised section 9 and regsheets.

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REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS
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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

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Express Or Implied, Is Made. Consult The Dow Chemical Company
For Further Information.

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