

MATERIAL SAFETY DATA SHEET

For chemicals, coatings and related material

Section IV – First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

Skin Contact

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention. For severe exposure, immediately get under a safety shower and begin rinsing.

Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation

Remove to fresh air. Call a physician if symptoms develop or persist. Administer oxygen or artificial respiration as needed.

Section V – Fire Fighting Measures

Flash Point: 500 °F; 260 °C

Autoignition Point: N/Av °F

Sensitivity to Static Discharge: N/Av

Sensitivity to Mechanical Impact: N/Av

Dust Explosion Hazard: None Known

Fire and Explosion Hazards

Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide, and isocyanate-containing compounds.

Extinguishing Media

Use dry chemical, carbon dioxide, foam, or water spray (fog).

Fire Fighting Instructions

Firefighters should wear NFPA compliant structural fire fighting protective equipment, including a self-contained breathing apparatus, helmet, hood, boots, and gloves. Avoid contact with isocyanates. During a fire, isocyanate vapors and other irritating and highly toxic gasses may be produced.

Section VI – Accidental Release Measures

Emergency Action

Appropriate safety measures and protective equipment should be used. See Section 8. Do not discharge to lakes, streams, ponds, or sewers. Dispose of in compliance with local, state, and federal regulations.

Spill or Leak Procedure

Scrape up paste and place in steel drums that are in good condition. Thoroughly clean area where spilled.

Containment Procedures

Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Liquid spills: cover spills with absorbent clay or sawdust and collect material in open container and neutralize with a solution containing 2% liquid detergent, 3% concentrated ammonium hydroxide and 95% water. Wash spill area clean with the neutralization solution. Remove container to a safe place, cover loosely and allow to stand for 24 to 48 hours letting evolved carbon dioxide escape. Pellet or chip spill: collect and contain for salvage or disposal. Molten adhesive spill: placard hot material, allow to cool, and remove. Collect and contain for salvage or disposal.

Reporting

See Federal reporting requirements listed in Sec. 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

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Section VII – Handling and Storage

Handling Precautions

Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Do not breathe vapors, mists, or dusts. Do not breathe fumes generated when the material is overheated or burned. Use adequate ventilation. Wear respiratory protection if the material is heated, sprayed, used in a confined space or if exposure limit is exceeded. This product can produce asthmatic sensitization. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must avoid fumes from this product. Wear appropriate protective equipment to avoid contact with skin and eyes.

Storage Precautions

Store in a cool, dry, well-ventilated area away from heat, ignition sources and direct sunlight. Water contamination should be avoided. Cool location should be 60-80 degrees F or 15-30 degrees C.

Empty Container Precaution

Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

Section VIII – Exposure Controls/Personal Protection

Engineering Controls

Use local exhaust or general ventilation where the potential exists to exceed the PEL or TLV exposure limits.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing. Launder before reuse.

Respiratory Protection

Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.

Additional Exposure Data

US ACGIH THRESHOLD LIMIT VALUES: TWA: PPM AND mg/m³
METHYLENE BISPHENYL ISOCYANATE (MDI) 0.005 PPM

US NIOSH POCKET GUIDE TO CHEMICAL HAZARDS: CEILING LIMIT VALUE AND TIME PERIOD (IF SPEC.)
METHYLENE BISPHENYL ISOCYANATE (MDI) .2 mg/m³ - .020 PPM 10 MIN.

Section IX – Physical and Chemical Properties

Target solids: 100%
Density: 1.65 g/cc
Odor: Mild
Color: Gray
Physical State: Paste
Freeze Protect: No
VOCs (Volatile Organic Cpd.): 0%

Section X – Chemical Stability and Reactivity Information

Hazardous reactions/decomposition products: Unknown due to the complex nature of this material. Fumes from complete or incomplete combustion may include carbon dioxide, carbon monoxide, water vapor, oxides of nitrogen and a wide variety of innocuous or toxic fumes. Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and isocyanate-containing compounds.

Hazardous Polymerization: Can occur with elevated temperatures or contact with water.

Conditions to Avoid: Avoid strong acids. Avoid amines, strong bases, alcohols, and metallic hydrides.

Stability: This product is stable under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent. Carbon dioxide, carbon monoxide and in high temperature (800 degrees F) low oxygen atmospheres such as in fire situations, hydrogen cyanide may be released.

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XI – Toxicological Information

Carcinogenicity: This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.

Local effects: Single large doses and/or repeated exposures may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air, or other irritants. Sensitization can last several months, years or be permanent in some cases.

XII – Ecological Information

No Data Available.

XIII – Disposal Considerations

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

XIV – Transport Information

NOT REGULATED BY D.O.T., IATA, or IMDG.

XV – Regulatory Information

Federal Regulation

All components are on the U.S. EPA TSCA Inventory List.

State Regulations

If this product contains any ingredients listed under California Proposition 65, they will be noted below:

International Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

HMIS Ratings

Health: 2; Flammability: 1; Physical Hazard: 0; Personal Protection: X

SARA 311/312 HAZARD CATEGORIES

Immediate Hazard: Yes; Delayed Hazard: Yes; Fire Hazard: No; Pressure Hazard: No; Reactivity Hazard: No

WHMIS Status: Controlled

XVI – Other Information

Product Names Covered: A74402 – DCVP PL ECORE EGRIP III 2.5G; A74405 – DCVP PL ECORE EGRIP III 5G; A74410 – DCVP PL ECORE EGRIP III 24/10.1

Health: 2

Fire: 1

Reactivity: 0

PPE: C

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Revision/Preparer Information

MSDS Preparer: Gregory M. Bachman

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| ABBREVIATIONS USED: | |
|---|--|
| N/Av = Information or data Not Available | NTP = National Toxicology Program |
| IARC = International Agency for Research on Cancer | NIOSH = National Institute of Occupational Safety and Health |
| ACGIH = American Conference on Governmental Industrial Hygienists | OSHA = Occupational Safety and Health Administration |
| PEL = Permissible Exposure Limit (8-hr. TWA) (OSHA) | TLV = Threshold Limit Value (8-hr. TWA) (ACGIH) |
| STEL = Short Term Exposure Limit (15-min. TWA) (OSHA) | C = Ceiling Value |
| HMIS = Hazardous Material Information System | |

| DISCLAIMER | |
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| <p>The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, ECORE makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.</p> | |
| REASON FOR REVISION: Change of part numbers | REISSUE REQUIRED: |