

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: HD-4664

PRODUCT NAME: HD-4664

PRODUCT CLASS: Waterborne Polyurethane

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT(S):	PERCENT:	OCCUPATIONAL EXPOSURE LIMITS:		VAPOR PRESSURE:
		TLV	PEL	

NONE IN REPORTABLE CONCENTRATION PER OSHA HAZARD
COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION III - PHYSICAL DATA

Evaporation Rate: Faster than Ether
 X Slower than Ether

Vapor Density: X Heavier than Air
 Lighter than Air

BOILING RANGE: 212E F. WT/GAL: 8.75 # NONVOLATILES: 50.0 % Wt.

LBS V.O.C./GAL COATING AS SUPPLIED: 0.09

Exposure above the TLV may cause irritation to the respiratory tract, with sneezing, coughing, burning sensation of the throat, constricting sensation of the larynx, and difficulty in breathing. High concentrations may cause liver, kidney, and heart damage, tracheitis, bronchitis, pneumonitis, and pulmonary edema.

INGESTION:

May cause chemical burns of the mouth, throat, and esophagus. Signs and symptoms will include pain or discomfort in the mouth, throat, chest, and abdomen, nausea, vomiting, diarrhea, dizziness, and drowsiness, faintness, weakness, collapse, and coma.

EFFECTS OF REPEATED OVEREXPOSURE:

May cause low grade dermatitis and conjunctivitis.

OTHER HEALTH HAZARDS:

May cause skin sensitization and development of allergic contact dermatitis in a small proportion of individuals and may aggravate an existing dermatitis. Inhalation may aggravate asthma and inflammatory or fibrotic pulmonary disease.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Preexisting eye, skin, and respiratory disorders, or preexisting impaired peripheral nerve function may be aggravated by exposure to this product.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION EYE

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:

Immediately flush eyes with water for at least 15 minutes. The eyelids must be held open and away from the eyeball to ensure that all surfaces are flushed thoroughly. Seek immediate medical attention, preferably an ophthalmologist.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard clothing and shoes. Call a physician.

INHALATION:

Remove to fresh air. Give artificial respiration, if not breathing. Oxygen may be given, if necessary. Call a physician.

INGESTION:

Rinse mouth with water. Give at least 2 glasses of water or milk at once, if the patient is conscious. **DO NOT** induce vomiting. Seek immediate medical attention.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE STABLE

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning can produce nitrogen oxides, carbon monoxide, and carbon dioxide.

CONDITIONS TO AVOID:

Will not polymerize, but may catalyze polymerization of epoxides or aldehydes (especially acrolein).

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong mineral acids (sulfuric, hydrochloric, nitric); oxidizers (liquid oxygen, ozone, peroxide); chlorine; hypochlorites; ketones; aldehydes (acrolein); epoxides; esters; alkylhalides (carbon tetrachloride, trichloroethylene, etc.).

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities, if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits use a NIOSH approved respirator to prevent overexposure.

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section II), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, systems safe for such locations should be used.

PROTECTIVE GLOVES:

The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation and absorption.

EYE PROTECTION:

Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE EQUIPMENT:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

HYGIENIC PRACTICES:

Wash with soap and water.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. "Empty" containers should be completely drained, properly bunged and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

OTHER PRECAUTIONS:

For industrial use only.

SECTION X - REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS:

All chemicals found in this product comply with the Toxic Substance Control Act inventory reporting requirements.

EPA SARA TITLE III CHEMICAL LISTINGS:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME: _____ **CAS NUMBER:** _____ **CONCENTRATION:** _____

No chemicals in this product exceed the de minimus reporting level established by Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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