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Technical Overview: Hazard Evaluation Process (HEP) Policy OP010

The MnDOT Office of Environmental Stewardship developed the Hazard Evaluation Process (HEP) as a tool to determine potential environmental impacts that could result from use of a product and consequently, if the product is acceptable for use on MnDOT infrastructure. The following information must be submitted by the vendor in order for MnDOT to complete the HEP:

1. Vendor information
 - a. Name of company
 - b. Address
 - c. Technical contact name and telephone number
 - d. Application date
 - e. Product trade name
 - f. Product chemical name
 - g. Product data sheet
2. Provide Safety Data Sheets (SDS) for all chemicals in the product/waste material.
3. Regulatory approvals and status:
 - a. Licenses
 - b. Approvals
 - c. Permits
 - d. TSCA Listing
4. Chemical Status:
 - a. Provide individual chemical & physical properties (EPA Methods 830.7200, 830.7220, 830.7840, 830.6317, 830.7370, 830.7570, 830.7950, 835.1230, and 835.2130 or equivalent methods);
 - b. Identify chemicals with molecular weights greater than 1000 Daltons (OECD Methods 118, 120 or equivalent);
 - c. Proof that final product would not be considered a hazardous waste under Minnesota Rules Chapter 7045 if disposed of unused;
 - d. Names and Chemical Abstract Numbers (CAS numbers) of the reportable substances in the product (40 CFR 302);

The following product-specific information must be submitted if known. If information for a representative test is unknown it must be stated as such.

- U.S. EPA [SW-846 test method](#) information
- [OECD product test method](#) information
- U.S. EPA Office of Chemical Safety and Pollution Prevention [Harmonized Test Guidelines](#):
 - Leach test results (EPA Method 1312 with subsequent analysis for test substance or equivalent method);
 - Biodegradation (EPA Method 835.3110, 835.3190, 835.3215, 835.3300, 835.4100 or equivalent method);
 - Ecotoxicity to include three trophic levels (EPA Method 850.1300, 850.1400, 850.4100, 850.4150, 850.5400, and 850.6200 or equivalent method);
 - Other available test data that provide individual chemical fate, exposure and pathway information.