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.

For more information contact: MnDOT’s Chief Toxicologist, 651-366-3608