

Criteria for Acceptance of Liquid Anti-stripping Asphalt Additives for 2022 NS Public Works Hot/Warm Mix Paving Projects

A: For All Products

1. Administrative

- a. Available for sale in Canada
- b. All ingredient and specification information supplied as requested, including information which is regarded as trade secret or confidential business information (under a confidentiality agreement, if necessary)
- c. Complete and adequate Safety Data Sheet (SDS), meeting all Canadian Workplace Hazardous Materials Information System (WHMIS 2015) requirements. Where all ingredient information is not fully disclosed (i.e.: listed as trade secret or confidential business information) the SDS must be reviewed by the Hazardous Materials Information Review Bureau of Health Canada and must be issued with a Trade Secret Registry Number
- d. Sample of the formulation provided

2. Physical Characteristics

- a. Non-volatile formulation (no low boiling components)
- b. Low odour formulation

3. Toxicological Characteristics

- a. No ingredient with long term health effects, such as carcinogenicity, reproductive toxicity or lasting effect on any organ system
- b. No ingredient which is a primary lung sensitizing agent
- c. Overall formulation must be non-corrosive
- d. Overall formulation must be low irritant
- e. For formulations using a solvent to "cut" the final formulation, that solvent must be low toxicity

B: For Formulations Containing Amines:

1. Additional Toxicological Characteristics

- a. No low molecular weight amines (e.g. EDA, DETA, MEA) in final formulation
- b. No low molecular weight amines used as raw materials in preparing the formulation unless excess (unreacted amine) raw material is removed from the final formulation
- c. No primary amines in the final formulation
- d. Preference given to derivatized or substituted amines (e.g. ethoxylated)