



## Soluble Silicates Used in Drinking Water Supplied by Municipalities

The Ontario Ministry of Environment (MOE) establishes various Acts, Regulations, and Guidelines to govern the use of chemicals used in producing and transporting clean drinking water.

Public Health officials, Building Code Officials, and other authorities having jurisdiction, reference these same documents when interacting with public drinking water systems. These documents include:

- Safe Drinking Water Act Ontario (2002), Ontario Building Code and Ontario Plumbing Code
- NSF/ANSI Standard 60 Drinking Water Treatment Chemicals – Health Effects
- Drinking-Water Systems; Ontario Reg. 170/03
- Design Guideline for Drinking-Water Systems 2008. (PIBs #6881e)
- Guidance Document for Preparing Corrosion Control Plans for Drinking Water Systems FINAL Federal-Provincial-Territorial Committee on Drinking Water. Federal-Provincial-Territorial Committee on Health and the Environment. Health Canada, June 2009.
- Guidance for Demonstrating Compliance with Ontario Reg. 170/03 Schedule 15.1 Lead, Dec 2009; made under Ontario Safe Drinking Water Act 2002. (PIBs # 7463)
- Flushing, sampling and testing for lead contamination in drinking water pipes serving schools and nurseries; Ontario Reg. 243/07.

Many Municipalities in Canada use “food grade” soluble silicates to prevent pinhole leaks in their water distribution pipes. See Table 1 below, for a partial list of these Municipalities.

Table 1: Municipalities using food grade Silicates in all Drinking Water supplied to their customers

City of Peterborough	Region of York – Holland	City of Barrie
Oxford County	Sturgeon Falls	Wasaga Beach
Ottawa	Brantford	Ville de Montreal
Ville de Laval	Ville de Gatineau	Ville de Lavaltrie
Ville de Granby	Ville de Trois Rivieres	Ville de Rosemere
Ville de Chateauguay	Cap De-La Madeleine	Ville de Longueil
La Cite de Drummondville	Ville D'Acton Vale	Ville de Baie Comeau
Ville De Becancour	Ville De Donnacona	Ville de Huntingdon
Ville de l'Assomption	Ville de Lavaltrie	Ville De Mont-Tremblant
Ville De Pierrefonds	Ville de Plessisville	Ville De Pointe-Claire
Ville De Repentigny	Ville De Sainte-Adele	Ville De Sainte-Therese
Ville De St. Eustache	Ville De St. Hyacinthe	Ville de St-Louis de France
Ville De Trois Riv. Ouest	Ville De Trois Riviere	Ville De Victoriaville

LEaC Shield Ltd. uses food grade silicates to prevent pinhole leaks in water pipes, complying with all the laws and regulations listed above. We also remove harmful lead found in drinking water pipes within some schools, completely satisfying the local Medical Officer of Health’s safe drinking water requirements.