Crystal Data: Cubic.  

Point Group: 4/m32/m. As tiny cubes and octahedra, tapering prismatic aggregates, to 3 mm; botryoidal, as irregular grains and fine-grained powdery patches.

Physical Properties:  
Cleavage: {100}, good. Fracture: Uneven to conchoidal.  
Hardness = ~4.5  
D(meas.) = 2.62  
D(calc.) = 2.67  
May fluoresce pale yellow under SW UV.

Optical Properties:  
Translucent, quickly becoming opaque on exposure.  
Color: Bright to dull white surfaces, pale yellowish green or light orange cores.  
Streak: White.  
Luster: Vitreous or porcelaneous to waxy or dull.  
Optical Class: Isotropic.  
\( n = 1.3986(5) \)

Cell Data: Space Group: Fm\(3m\).  
a = 4.0293(2)  
Z = 4

X-ray Powder Pattern:  
Mont Saint-Hilaire, Canada.  
2.013 (10), 2.324 (9), 1.424 (5), 1.213 (1), 1.163 (1), 0.924 (1), 0.900 (1)

Chemistry:  
\[
\begin{array}{l}
\text{Li} & 24.72 \\
\text{Fe} & 0.03 \\
\text{Mn} & 0.01 \\
\text{Ca} & 0.03 \\
\text{Al} & 0.06 \\
\text{F} & 72.20 \\
\hline
\text{Total} & 97.05 \\
\end{array}
\]

(1) Mont Saint-Hilaire, Canada; by AA, F by ion selective electrode; corresponds to \( \text{Li}_{0.97}\text{F}_{1.03}\).

Occurrence:  
In sodalite inclusions in hornfels associated with an intrusive alkalic gabbro-syenite complex.

Association:  
Sodalite, ussingite, villiaumite, eudialyte, sphalerite, serandite, lovozerite, vuonnemite.

Distribution:  
From Mont Saint-Hilaire, Quebec, Canada.

Name:  
Honors Dr. Joel Denison Grice (1946– ), Curator of Minerals at the Canadian Museum of Nature [National Museum of Natural Sciences], Ottawa, Canada.

Type Material:  

References:  