$(\mathrm{Bi}, \mathrm{U}, \mathrm{Ca}, \mathrm{Pb})_{1+\mathrm{x}}(\mathrm{Nb}, \mathrm{Ta})_2\mathrm{O}_6(\mathrm{OH}) \cdot \mathrm{nH}_2\mathrm{O}_6$ © 2001-2005 Mineral Data Publishing, version 1

Crystal Data: Cubic. Point Group: $4/m \overline{3} 2/m$. Always anhedral, forming earthy crusts.

Hardness = 4-5 D(meas.) = n.d. D(calc.) = 7.38Physical Properties:

Optical Properties: Transparent to opaque. Color: Yellow to yellow-brown, rarely greenish;

brownish in transmitted light.

Optical Class: Isotropic. n = 2.09(1)

Cell Data: Space Group: Fd3m. a = 10.38 Z = 8

X-ray Powder Pattern: Neubulach, Germany.

 $3.01\ (10),\ 2.60\ (7),\ 1.833\ (7),\ 1.565\ (7),\ 1.190\ (5),\ 1.162\ (5),\ 1.498\ (4)$

Chemistry:

 $\begin{array}{ccc} {\rm Fe_2O_3} & 6.9 \\ {\rm Bi_2O_3} & 49.2 \\ {\rm Sb_2O_3} & 43.9 \end{array}$ Total 100.0

(1) Clara mine, Germany; by electron microprobe, corresponds to $\mathrm{Bi}_{1.31}^{3+}\mathrm{Sb}_{1.69}^{5+}\mathrm{Fe}_{0.54}^{3+}\mathrm{O}_{7}$.

Mineral Group: Stibiconite group.

Occurrence: A secondary mineral formed as an alteration product of bismuthian tetrahedrite-tennantite.

Association: Tetrahedrite-tennantite, chalcopyrite, beyerite, atelestite, preisingerite, bismutite, malachite, azurite, olivenite.

Distribution: From the Clara mine, near Oberwolfach, at Neubulach, and at Niederohlsbach, Black Forest, Germany. In the Lodi #4 mine, Spring Creek district, Plumas Co., California, USA.

Name: For a bismuth-containing member of the stibiconite group.

Type Material: n.d.

References: (1) Walenta, K. (1983) Bismutostibiconit, ein neues Mineral der Stibiconitgruppe aus dem Schwarzwald. Chem. Erde, 42, 77–81 (in German with English abs.). (2) (1984) Amer. Mineral., 69, 1190 (abs. ref. 1).