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Crystal Data: Monoclinic. Point Group: 2/m. As crystals, elongated along [001], to 3 cm, showing {110}, {010}, {100} {111}, {101}. Twinning: On {001}, twinned by merohedry.

Physical Properties: Fracture: Subconchoidal. Tenacity: Brittle. Hardness = ~ 4 D(meas.) = 2.82(2) D(calc.) = 2.81-2.83

Optical Properties: Semitransparent. Color: Dark blue. Streak: Pale blue. Luster: Vitreous on fractures, subvitreous on crystal faces. Optical Class: Biaxial (-). Pleochroism: Strong; X = pale blue; Y = grayish blue; Z = dark blue. Orientation: X = b; $Y \land a = 30.2^{\circ}$; $Z \land c = -11.5^{\circ}$. Dispersion: r > v, moderate.

 $\alpha = 1.590(2)$ $\beta = 1.610(3)$ $\gamma = 1.619(2)$ $2V(\text{meas.}) = 65(5)^{\circ}$ $2V(\text{calc.}) = 67^{\circ}$

Cell Data: Space Group: $P2_1/c$. a = 15.122(2) b = 14.358(1) c = 22.063(4) $\beta = 108.68(1)^{\circ}$ Z = 8

X-ray Powder Pattern: Wessels mine, South Africa. 3.393 (100), 3.120 (85), 3.188 (65), 3.098 (57), 3.368 (55), 3.200 (53), 2.769 (41)

Chemistry:

	(1)	(2)
SO_3	24.0	25.04
CuO	25.5	24.87
CaO	35.4	35.07
$\rm H_2O$	15.6	15.02
Total	100.5	100.00

(1) Wessels mine, South Africa; by electron microprobe, average of six analyses, H_2O by TGA-mass spectrometry; corresponds to $Ca_{6.03}Cu_{3.07}(SO_4)_{2.87}(OH)_{12.46} \cdot 2.06H_2O$. (2) Ca_6Cu_3 $(SO_4)_3(OH)_{12} \cdot 2H_2O$.

Occurrence: A very rare mineral formed during a period of evaporation of surface or ground waters at ambient temperature and atmospheric pressure.

Association: Barite, azurite, sturmanite, calcite, gypsum, bultfonteinite.

Distribution: From the Wessels mine, near Kuruman, Cape Province, South Africa.

Name: To honor Karl-Ludwig von Bezing (1945–), Austrian-South African mineral collector, for his contributions to knowledge of mineralogy of the Kalahari manganese field.

Type Material: American Museum of Natural History, New York, New York, USA, T100748.

References: (1) Dai, Y. and G.E. Harlow (1992) Descripton and crystal structure of vonbezingite, a new Ca-Cu-SO₄-H₂O mineral from the Kalahari manganese field, South Africa. Amer. Mineral., 77, 1292–1300.