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Crystal Data: Triclinic. Point Group: $\overline{1}$. As bladed to fibrous prismatic crystals, moderately striated and elongated along [001], may be bent, to 7.5 cm; as intergrown cleavable masses.

Physical Properties: Cleavage: {110}, excellent; {010}, good; {100}, { $\overline{126}$ }, fair; {1 $\overline{10}$ }, { $\overline{101}$ }, poor. Tenacity: Brittle. Hardness = 3 (|| {001}), 3.5 (\bot {001}). D(meas.) = 2.053 D(calc.) = 2.049 Soluble in H₂O.

Optical Properties: Transparent. Color: Colorless. Luster: Vitreous to satiny. Optical Class: Biaxial (-). Orientation: X (177°,86°); Y (-90°,47°); Z (82°,43°) [using (ϕ,ρ)]. Dispersion: r > v. $\alpha = 1.468(1)$ $\beta = 1.507(1)$ $\gamma = 1.529(1)$ 2V(meas.) = 73.5°

Cell Data: Space Group: $P\overline{1}$. a = 8.598(2) b = 9.570(2) c = 6.576(2) $\alpha = 102°45(3)'$ $\beta = 107°30(3)'$ $\gamma = 71°31(3)'$ Z = 1

X-ray Powder Pattern: Tincalayu deposit, Argentina. 6.936 (100), 3.074 (38), 4.494 (29), 3.135 (19), 2.780 (19), 2.039 (10), 3.302 (8)

Chemistry:

$$\begin{array}{cccc} & (1) & (2) \\ B_2O_3 & 59.4 & 58.20 \\ Na_2O & 19.8 & 21.08 \\ K_2O & 0.18 & \\ \underline{H_2O^+} & 20.4 & 20.72 \\ \hline Total & 99.78 & 100.00 \\ \end{array}$$

(1) Tincalayu deposit, Argentina; (OH)^{1–} and H_2O confirmed by DTA; corresponds to $Na_{3.98}B_{10.54}O_{17} \cdot 7H_2O$. (2) $Na_4B_{10}O_{17} \cdot 7H_2O$.

Occurrence: Probably formed from solutions derived from dehydration of borax in a discordant deposit in folded playa siltstones and sandstones.

Association: Borax, kernite, halite.

Distribution: From the Tincalayu borax deposit, Salar del Hombre Muerto, Salta Province, Argentina.

Name: Honors Juan Manuel de Ezcurra (1900–1970), Manager of the Compania Productora de Boratos, S.A., owner of the Tincalayu deposit, Argentina.

Type Material: National Museum of Natural History, Washington, D.C., USA, 123927.

References: (1) Muessig, S. and R.D. Allen (1957) Ezcurrite (2Na₂O•5B₂O₃•7H₂O), a new sodium borate from Argentina: occurrence, mineralogy, and associated minerals. Econ. Geol., 52, 426–437. (2) Hurlbut, C.S., Jr., and L.F. Aristarain (1967) Ezcurrite, 2Na₂O•5B₂O₃•7H₂O: a restudy. Amer. Mineral., 52, 1048–1059. (3) Cannillo, E., A. Dal Negro, and L. Ungaretti (1973) The crystal structure of ezcurrite. Amer. Mineral., 58, 110–115.