Crystal Data: Triclinic. *Point Group*: 1. As blades, to 0.5 mm, elongated along [100] and flattened on {001}; typically grouped in radial sprays. *Twinning*: Multiple twinning ubiquitous, probably by rotation on [100].

Physical Properties: Cleavage: Perfect on $\{001\}$. Fracture: Irregular. Tenacity: Brittle. Hardness = ~ 2 D(meas.) = n.d. D(calc.) = 3.535 Dissolves in dilute HCl.

Optical Properties: Transparent. *Color*: Green. *Streak*: Pale green. *Luster*: Vitreous to silky. *Optical Class*: Biaxial (–). $\alpha(\text{calc.}) = [1.667]$ $\beta = 1.723(2)$ $\gamma = 1.743(2)$ $2V(\text{meas.}) = 60(2)^{\circ}$ *Orientation*: $X \approx c^*$, $Y \approx b$, $Z \approx a$. *Dispersion*: Strong, r > v. *Pleochroism*: X = light yellowish green, Y = bluish green, Y = nearly colorless. *Absorption*: Y > X > Z.

Cell Data: *Space Group*: *P*1 .
$$a = 6.0742(7)$$
 $b = 8.4147(11)$ $c = 10.7798(15)$ $a = 103.665(7)^{\circ}$ $\beta = 95.224(7)^{\circ}$ $\gamma = 90.004(6)^{\circ}$ $Z = 2$

X-ray Powder Pattern: Santa Rosa mine, Darwin district, Inyo County, California, USA. 3.245 (100), 3.994 (67), 2.692 (57), 5.81 (50), 2.743 (49), 10.5 (46), 2.485 (39)

Chemistry:	(1)	(2)
CuO	48.96	54.74
ZnO	3.56	
SeO_2	18.82	19.09
SO_3	13.90	13.77
H_2O	[13.29]	12.40
Total	98.53	100.00

(1) Santa Rosa mine, Darwin district, Inyo County, California, USA; average of 5 electron microprobe analyses supplemented by Raman and FTIR spectroscopy, H_2O calculated for charge balance; corresponds to $(Cu_{3.55}Zn_{0.25})_{\Sigma=3.80}Se_{0.98}SO_{13}H_{8.50}$. (2) $Cu_4(SeO_3)(SO_4)(OH)_4 \cdot 2H_2O$.

Occurrence: In the oxidation-zone of a polymetallic hydrothermal sulfide deposit.

Association: Brochantite, chalcanthite, gypsum, ktenasite, mimetite, schulenbergite, smithsonite, goethite, hematite.

Distribution: From the Santa Rosa mine, Darwin district, Inyo County, California, USA.

Name: Honors Paul M. Adams (b. 1954) who discovered/collected the mineral and is coauthor of seven other new mineral descriptions.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (65569, 65570, 65571, 65572, and 65573).

References: (1) Kampf, A.R., S.J. Mills, and B.P. Nash (2016) Pauladamsite, Cu₄(SeO₃) (SO₄)(OH)₄·2H₂O, a new mineral from the Santa Rosa mine, Darwin district, California, USA. Mineral. Mag., 80(6), 949-958. (2) (2017) Amer. Mineral., 102, 697-698 (abs. ref. 1).