

**Crystal Data:** Orthorhombic. *Point Group:* 2/m 2/m 2/m. As granular crystals to 0.1 mm; aggregates to 2 mm.

**Physical Properties:** *Cleavage:* None. *Tenacity:* n.d. *Fracture:* n.d. Hardness = 2.5-3.5 (by analogy to bideauxite, marshite, miersite). D(meas.) = n.d. D(calc.) = 6.465-6.505

**Optical Properties:** Translucent. *Color:* Yellow. *Streak:* Yellow. *Luster:* n.d. *Optical Class:* n.d. *n*(calc.) = 2.18

**Cell Data:** *Space Group:* Fddd. *a* = 16.7082(9) *b* = 20.846(1) *c* = 21.016(1) *Z* = 32

**X-ray Powder Pattern:** Calculated pattern.

2.746 (100), 3.270 (81), 2.738 (77), 3.312 (76), 3.296 (69), 2.690 (64), 6.539 (60)

Chemistry:	(1)	(2)
Cu <sub>2</sub> O	7.22	8.01
PbO	51.8	50.01
I	42.5	42.65
H <sub>2</sub> O	[2.03]	2.02
-(OH) = I	2.61	.
Total	100.94	100.00

(1) Broken Hill, New South Wales, Australia; average of 10 electron microprobe analyses, H<sub>2</sub>O calculated from stoichiometry; corresponds to Pb<sub>2.06</sub>Cu<sub>0.89</sub>(OH)<sub>2</sub>I<sub>2.97</sub>. (2) Pb<sub>2</sub>Cu(OH)<sub>2</sub>I<sub>3</sub>.

**Occurrence:** In upper oxidation zone of a supergene-enriched, galena-Mn-silicate deposit. Likely from the oxidation of cuprite.

**Association:** Cuprite, marshite, copper, brochantite, anglesite.

**Distribution:** From Broken Hill, New South Wales, Australia.

**Name:** Honors Russian mineralogist and crystallographer Oleg. I. Siidra (b. 1981) for his extensive work on secondary lead oxysalts, in particular, synthetic iodine-rich phases.

**Type Material:** Natural History Museum, London, England (BM 84642 and BM 2016,1).

**References:** (1) Rumsey, M.S., M.D. Welch, A.K. Kleppe, and J. Spratt (2017) Siidraite, Pb<sub>2</sub>Cu(OH)<sub>2</sub>I<sub>3</sub>, from Broken Hill, New South Wales, Australia: the third halocuprate(I) mineral. *Eur. J. Mineral.*, 29(6), 1027-1030. (2) (2018) *Amer. Mineral.*, 103, 1714 (abs. ref. 1).