

Crystal Data: Orthorhombic. *Point Group:* $mm2$ or $2/m\ 2/m\ 2/m$. As acicular to prismatic crystals, elongated on [001] to 0.2 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = "Relatively soft." VHN = n.d. D(meas.) = n.d. D(calc.) = 9.899

Optical Properties: Transparent. *Color:* Orange to reddish, bluish grey in reflected light with yellowish orange internal reflections. Reversibly photosensitive; turns from vivid orange to black. *Streak:* Yellow. *Luster:* Vitreous.

Optical Class: n.d.

R_1 - R_2 : (470) 15.4-16.5, (546) 14.5-15.6, (589) 14.3-15.4, (650) 14.2-15.2

Cell Data: Space Group: *Imam*, *Imcm*, *Ima2* or *I2cm*. $a = 6.737(3)$ $b = 25.528(10)$ $c = 5.533(2)$
Z = 8

X-ray Powder Pattern: Mariposa mine, Terlingua district, Brewster County, Texas, USA. 2.518 (100b), 4.063 (80), 2.983 (60), 3.201 (50), 3.023 (50), 2.765 (50), 5.413 (30)

Chemistry:	(1)	(2)
HgO	92.03	92.21
Cl	9.54	10.06
Br	1.22	
-O = Cl + Br	2.28	2.27
Total	100.51	100.00

(1) Mariposa mine, Terlingua district, Brewster County, Texas, USA.; average of 8 electron microprobe analyses; corresponds to $\text{Hg}^{2+}_{3.00}\text{O}_{2.00}(\text{Cl}_{1.90}\text{Br}_{0.11})_{\Sigma=2.01}$. (2) $\text{Hg}^{2+}_3\text{O}_2\text{Cl}_2$.

Occurrence: A secondary mineral formed by alteration of cinnabar or native mercury as granular crusts.

Association: Calcite (Mariposa mine); kleinite, calomel (McDermitt Mine).

Distribution: From the lower level of the Perry pit, Mariposa mine, Terlingua district, Brewster County, Texas, and the McDermitt mine, Humboldt County, Nevada, USA.

Name: Named after *Terlingua Creek*, which flows in the Terlingua mining district, Texas.

Type Material: The Systematic Reference Series, National Mineral Collection, Geological Survey of Canada (MNC68100) and the Natural History Museum, London, England (BM2004, 54).

References: (1) Roberts, A.C., R.A. Gault, W.H. Paar, M.A. Cooper, F.C. Hawthorne, P.C. Burns, S. Cisneros, and E.E. Foord (2005) Terlinguacreekite, $\text{Hg}^{2+}_3\text{O}_2\text{Cl}_2$, a new mineral species from the Perry Pit, Mariposa mine, Terlingua mining district, Brewster county, Texas, U.S.A. *Can. Mineral.*, 43, 1055-1060. (2) (2006) *Amer. Mineral.*, 91, 219 (abs. ref. 1).