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Crystal Data: Monoclinic. Point Group: 2/m. As acicular to prismatic crystals, elongated along [101], showing $\{010\}$, $\{\overline{1}11\}$, $\{001\}$, $\{101\}$, to 0.5 mm; typically in stellate aggregates.

Physical Properties: Cleavage: On $\{010\}$, good; on $\{101\}$, fair. Fracture: Subconchoidal. Tenacity: Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 7.11 Photosensitive, turning olive-green after several months exposure.

Optical Properties: Transparent to opaque. *Color:* Canary yellow to orangeish yellow; pale gray to bluish gray in reflected light with brilliant pale yellow internal reflections. *Streak:* Yellow. *Luster:* Adamantine.

Cell Data: Space Group: $P2_1/c$. a = 7.5283(4) b = 14.8325(8) c = 7.4629(4) $\beta = 118.746(1)^{\circ}$ Z = 4

X-ray Powder Pattern: Clear Creek claim, California, USA. 3.212 (100), 3.012 (60), 4.88 (50), 5.94 (40), 2.307 (40), 2.185 (40), 2.208 (35)

Chemistry:

	(1)	(2)
CrO_3	11.5	12.79
Hg	51.6	51.31
$_{\mathrm{HgO}}$	27.9	27.70
S	8.2	8.20
Total	99.2	100.00

(1) Clear Creek claim, California, USA; by electron microprobe, average of five analyses, Hg and HgO partitioned according to crystal-structure analysis; then corresponding to $\mathrm{Hg_{3.26}^{2+}Cr_{0.97}^{6+}}$ $\mathrm{O_4S_{2.16}}$. (2) $\mathrm{Hg_3^{2+}CrO_4S_2}$.

Occurrence: A rare alteration product of cinnabar, in a mercury deposit in silicate–carbonate rock hydrothermally altered from serpentinite.

Association: Cinnabar, deanesmithite, ferroan magnesite, quartz.

Distribution: From the Clear Creek claim, near the Clear Creek mercury mine, New Idria district, San Benito Co., California, USA.

Name: To honor Edward H. Oyler (1915–), American mineral collector specializing in mercury minerals.

Type Material: Canadian Geological Survey, Ottawa, Canada, 65026; National Museum of Natural History, Washington, D.C., USA, 165270.

References: (1) Erd, R.C., A.C. Roberts, M. Bonardi, A.J. Criddle, Y. Le Page, and E.J. Gabe (1993) Edoylerite, $\mathrm{Hg_3^{2+}Cr^{6+}O_4S_2}$, a new mineral from the Clear Creek claim, San Benito County, California. Mineral. Record, 24, 471–475. (2) Burns, P.C. (1999) The structure of edoylerite determined from a microcrystal. Can. Mineral., 37, 113–118.