Crystal Data: Triclinic. Point Group: $\overline{1}$ or 1. As thin tablets elongated along [100], with {010} dominant, {001} less developed, and terminated by {100} and {101}, to 0.5 mm.

Physical Properties: Cleavage: Good on $\{010\}$ and $\{001\}$. Hardness = 3 (probable). D(meas.) = 4.03 D(calc.) = 4.47 Radioactive.

Optical Properties: Transparent to translucent. Color: Bright yellow. Streak: White. Luster: Vitreous.

Optical Class: Biaxial (-). Pleochroism: Strong; X = colorless; Y = yellow. Orientation: $X \simeq b^*; Y \wedge a = 1^{\circ} - 2^{\circ}; Z \perp a \text{ and } b^*. \quad \alpha = [1.709] \quad \beta = 1.735(2) \quad \gamma = 1.744(2)$ $2V(\text{meas.}) = 60(3)^{\circ}$

Cell Data: Space Group: $P\overline{1}$ or P1. a = 10.98(2) b = 15.96(2) $\alpha = 95.1(2)^{\circ}$ $\beta = 96.1(2)^{\circ}$ $\gamma = 89.0(2)^{\circ}$ Z = 2

X-ray Powder Pattern: Kobokobo pegmatite, Congo. 7.95 (100), 3.972 (80), 3.271 (40), 3.175 (40), 15.92 (30), 3.493 (30), 4.307 (25)

Chemistry:

	(1)
UO_3	71.76
P_2O_5	5.48
$\mathrm{As_2O_5}$	2.12
Al_2O_3	2.39
PbO	9.86
${\rm H_2O}$	[8.39]
Total	[100.00]

(1) Kobokobo pegmatite, Congo; by electron microprobe, average of three analyses, H₂O by difference; corresponding to $Pb_{0.90}Al_{0.96}(UO_2)_{5.10}[(P_{0.79}As_{0.19})_{\Sigma=0.98}O_4]_2(OH)_9 \bullet 9.5H_2O$.

Occurrence: A rare secondary mineral in the oxidized uraniferous zone of a complex granite pegmatite.

Association: Dumontite, studtite, triangulite, threadgoldite, phuralumite, upalite, mundite, metatorbernite, muscovite, albite, quartz.

Distribution: From the Kobokobo pegmatite, Lusungu River district, Kivu Province, Congo (Zaire).

Name: For Kamituga, Congo, the mining center on which exploitation of Kobokobo depended.

Type Material: Royal Museum of Central Africa, Tervuren, Belgium, RMG13985, RMG13986.

References: (1) Deliens, M. and P. Piret (1984) La kamitugaïte, PbAl(UO₂)₅[(P, As)O₄]₂ (OH)₀ • 9.5H₂O, nouveau minéral de Kobokobo, Kivu, Zaïre. Bull. Minéral., 107, 15–19 (in French with English abs.). (2) (1985) Amer. Mineral., 70, 437 (abs. ref. 1).