Buttgenbachite - $Cu_{19}(NO_3)_2(OH)_{32}Cl_4 \cdot 2H_2O$

Hardness: 3. Cleavage: No data. May be sensitive to acetic acid, formic acid, tartaric acid or citric acid. Very sensitive to NH_3 and alkalis. Likely sensitive to dithionite.

References

Mindat: https://www.mindat.org/min-811.html

Handbook of Mineralogy: https://www.handbookofmineralogy.org/pdfs/buttgenbachite.pdf

Duthaler, R. and Weiß, S. (2024) Mineral Cleaning for Collectors, 3rd Edition, 190 p. Duthaler, Switzerland.