

NON-TOXIC REAGENT FOR GOLD LEACHING: CLEAN MINING FOR CYANIDE-FREE GOLD

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ABSTRACT

Cyanide has long been the go-to chemical for gold extraction in the industry, however, there have been growing concerns about its use due to its negative health and environmental impacts. Several countries and jurisdictions have already banned the use of cyanide for gold extraction, and it is inevitable that more will follow. Even where its use is not banned, costly and time-consuming regulatory requirements around cyanide use can hinder the operation of existing gold processing facilities as well as the start-up of new projects.

Clean Mining, a part of the Clean Earth Technologies group, is working to transform gold production worldwide with a new mineral processing technology that eliminates cyanide and mercury in the gold recovery process. We want to ensure that cyanide and mercury are removed from the gold recovery process, so that workers can operate under acceptable conditions and consumers can insist on "Clean Gold" certified products.

This revolutionary award-winning, non-toxic and environmentally sustainable recovery agent offers genuinely transformational change for the industry, setting a new 'gold standard' for miners around the world. At long last, cyanide and mercury can be a thing of the past. This is the mineral processing technology of the future.

This solution replaces toxic cyanide and mercury with a non-toxic gold recovery agent, benefiting both human health and the health of the environment.

Our technology uses a non-toxic, non-flammable and water-soluble solution that removes cyanide as the primary means of leaching gold in medium to large-scale mining operations. Clean Mining have tested over 180 different ores from around the world with total gold recovery inline with cyanide recovery, or in the case of carbonaceous ore sources there has been significant increased gold extraction.

Keywords: non-toxic, cyanide-free, mercury-free, ESG, clean technology, Envirotech, award winning solution, clean gold, responsible mining, ethical mining, sustainable mining, gold recovery, gold mining