

Identification of the substance: Nanoparticles of gold

Substance name	Gold
EC	No data
CAS	7440-57-5
IUPAC	No data
Molecular formula	Au
Forms in the market	No data

Physical and chemical properties

Shape	No data
Size (nm)	No data

Toxicological information

Inhalation acute toxicity	No data
Dermal acute toxicity	No data
Oral acute toxicity	Toxic
Genotoxicity	No data
Cytotoxicity	Nontoxic

Ecotoxicological information

Freshwater Acute toxicity (Daphnia)	EC50 = >750 mg/L (Nontoxic) EC50 = >100 µm/L (Very toxic)
Freshwater Acute toxicity (Alga)	No data
Freshwater Acute toxicity (Fish)	EC50 = >100 µm/L (Very toxic)
Soil invertebrates (worms)	No data
BAF-Bioaccumulation	No data

Application

Industrial uses	Additives
Improved properties	Electrical conductivity
Polymeric matrix	Polyaniline (PANI), polystyrene sulfonate (PSS), polystyrene (PS), poly(dimethylsiloxane) (PDMS)