

COPPER PYRITHIONE AGGREGATES AND USE OF SAME

ABSTRACT

[Problems] There were two future tasks about improving copper pyrithione which has been known world-wide as a major antifoulant for ship-bottom paint. One was to control its elution from coating film to develop a product having long lasting antifouling effect from the viewpoint of marine environmental protection. The other was to develop a product with particles that brings minimized dusting in order to improve its safety at work site.

[Solutions] The present inventor succeeded in producing copper pyrithione aggregates composed of small cylindrical and tabular particles which are different from acicular crystals of conventional copper pyrithione by using double salt of inorganic copper (II) salt and inorganic ammonium salt instead of inorganic copper (II) salt, which is a raw material for producing conventional copper pyrithione. As the results, it was found that the elution to sea water of particles of copper pyrithione aggregates with average particle size of 5.5-less than 9 μm and mainly in spherical and ellipsoid spherical shape can be controlled and risk of inhalation at work site can be reduced. The above problems were resolved.

[No figure]