

ABSTRACT

METHOD FOR DRYING RED WATER FROM TRINITROTOLUENE PURIFICATION PROCESS, POWDER AND PACKAGED PRODUCT

The present invention relates in general to a method for drying the effluent from the trinitrotoluene (TNT) purification process, known as red water, that uses spray drying in an efficient, improved, and safe manner. The present invention also covers the characteristics of the obtained powder, the use thereof, and a packaged product containing said powder. The proposed technique suggests the use of lower temperatures at liquid incineration ($< 300^{\circ}\text{C}$ compared to 1000°C), and also the fact that the main target material is not broken down, thereby not generating toxic fumes, and enabling the dry powder to be used for other applications.

Figure 1