



MARLYN

Product Information Sheet

Xanthate

Product Description

Xanthate is an organo-sulphur compound, usually yellow in colour. The name “xanthate” is derived from the Greek word meaning yellow golden. They are salts consisting of a non-polar hydrocarbon group and a polar group that adsorbs onto the sulphide mineral surface. The technical grade supplied by Marlyn is 90-95% purity, in pellet form. The product is also available in flakes and as a solution. Xanthates may be toxic to aquatic life at concentrations of less than 1 mg/l.

Usage

Xanthate has two primary applications:

- 1) Mining, for the extraction of certain ores
- 2) Manufacturing, for the production of cellophane and related polymers from cellulose

Marlyn supplies sodium isobutyl xanthate, SIBX (>90%), to the mining industry. SIBX is a general purpose collector used for flotation of almost all sulphide minerals where high selectivity is not required. Examples of such mineral operations include gold, silver, copper-gold, copper-zinc and nickel. All xanthates are water soluble and are usually fed as 5% - 20% solutions. They cannot be applied in highly acidic circuits as the xanthates will decompose. In order to obtain optimum efficacy, care must be taken to the sequence of addition of modifiers, collectors and frothers, especially when activators and depressants are used.

Packaging

SIBX is available in 25kg bags, or 850kg boxes. The product should be stored in a dry and cool environment.

Health and Safety Information

For Health, Safety, Shipping and Handling information it is recommended to refer to the Material Safety Data Sheet.

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