MINING

Technical data sheet

Danafloat™ 070 mineral collector

Application

Danafloat 070 is an aryl dithiophosphoric acid.

Danafloat 070 has strong frothing properties. It is a quite powerful collector and especially in acid or neutral circuits a non-selective product for all sulphides. In alkaline environments, *Danafloat 070* is useful for the flotation of copper, silver, gold, lead and zinc sulphides, as in general it does not float pyrite at high pH. Many operators have found that *Danafloat 070* together with an alkyl dithiophosphate or a xanthate are the best combinations for optimum grade and recovery. Because of the limited water solubility, *Danafloat 070* should be added to the grinding circuit or the conditioner.

The dosage of *Danafloat 070* is wide and varies with the type of ore, usually falling within the range of 10 to 100 grams per metric ton ore.

Danafloat 070 should be used undiluted.

Experience has shown that *Danafloat 070* is effective in the pH range of 4-12.

Composition

Chemical name:	cresyl-dtp
CAS name:	Phosphorodithioic acid, 0,0-bis (methyl-phenyl) ester
Active ingredient:	70-80%, titration min. 80% by weight

Physical properties

Appearance:	Black
Form:	Liquid
Boiling point:	Not known
Melting/freezing point:	Not known
Specific gravity:	1.2 g/ml
Flash point:	111.5 degrees C

CHEMINOVA DANAFLOAT™

CHEMINOVA A/S
P.O. Box 9
DK-7620 Lemvig
Denmark
Phone +45 96 90 96 90
Fax +45 96 90 96 91
danafloat.com

Safety and handling

Danafloat flotation collectors are manufactured under carefully controlled conditions. However, to varying degrees they can be considered harmful or toxic, and therefore before handling this product always carefully read and understand the MSDS for this product.

Danafloat 070 contains 5-10% cresols, and cresols

- may be fatal if inhaled, swallowed or adsorbed through skin
- cause burns
- are extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Safe handling includes the use of safety glasses, natural rubber gloves and protective clothing. Additionally, avoid inhalation of vapours.

Storage

+ Store in a dry and well-ventilated place away from heat and sunlight after the principle "first in/first out"
+ Avoid freezing
+ Store in coated steel drums

Environmental impact

Danafloat 070 is biodegradable. The cresols in the product are readily degradable biologically. Cresols show high acute toxicity both towards fish (LC_{50}, 96 hrs, 1-10 mg cresols per litre) and to aquatic invertebrates. The majority of the collector is, however, tied up with the concentrate and is destroyed in the subsequent processing operations. The remainder is transferred to the tailings. Release into the water systems should be avoided.

Packing

Danafloat mineral collectors are supplied in tank containers or coated steel drums.

Tank containers Net weight: approx. 20 mt

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