



## Danafloat™ 067 mineral collector

### Application

*Danafloat 067* is a water soluble salt of aryl dithiophosphoric acid.

*Danafloat 067* has a light frothing characteristic and is especially useful where a fast, selective and active collector is required and no conditioning of the collector with pulp is possible.

The dosage of *Danafloat 067* is wide and varies with the type of ore, usually falling within the range of 10 to 100 grams per metric ton ore.

*Danafloat 067* can be added undiluted or preferably diluted with clear water to 5-20 % solutions. It is good practice to stir before use.

Experience has shown that *Danafloat 067* is effective in the pH range of 4-12.

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### Composition

|                    |   |
|--------------------|---|
| Chemical name:     | cresyl-dtp-NH <sub>4</sub>  |
| CAS name:          | Phosphorodithioic acid, O,O-bis(methyl-phenyl) ester, ammonium salt |
| Active ingredient: | 49-51% by weight  |

### Physical properties

|                         |                              |
|-------------------------|------------------------------|
| Appearance:             | Reddish brown to black       |
| Form:                   | Liquid (aqueous solution)    |
| Boiling point:          | Above 100 degrees C          |
| Melting/freezing point: | Minus 1 to minus 5 degrees C |
| Specific gravity:       | 1.14 g/ml                    |
| Flash point:            | None                         |

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**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 067* contains 4-8% 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 plastic drums or coated steel drums

**Environmental impact**

*Danafloat 067* is biodegradable. The cresols in the product are readily degradable biologically. Cresols show high acute toxicity both towards fish (LC<sub>50</sub>, 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 plastic drums. If preferred, *Danafloat* collectors may be supplied in coated steel drums.

|                 |               |   |
|-----------------|---------------|---|
| Tank containers | Net weight:   | approx. 20 mt   |
| Drums           | Net weight:   | 225 kg  |
|                 | Gross weight: | approx. 235.5 kg for plastic drums<br>approx. 247 kg for coated steel drums |

Notice to customer: The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Cheminova A/S 2011