



Danafloat™ 468 mineral collector

Application

Danafloat 468 is an aqueous solution of dialkyl dithiophosphates.

Danafloat 468 is practically a non-frothing collector. It is a fast collector and it requires only short conditioning time and is therefore useful for staged addition.

Danafloat 468 has found its greatest application in the flotation of gold, silver and copper ores, where selectivity towards sphalerite is particularly desired. It is rated an excellent collector in the flotation of metallics such as gold, silver and copper. *Danafloat 468* is also rated an effective collector for chalcocite, bornite and covellite. If gold is liberated from sulphides and gangue,

Danafloat 468 is the most effective collector for fine gold. If gold occurs in association with pyrite and other sulphides, a supplementary collector, e.g. xanthate should be used.

Danafloat 468 can be added undiluted or preferably diluted with clear water to 5-20% solutions. It is good practice to stir before use.

The dosage of *Danafloat 468* varies with the type of ore, usually falling in the range of 5 to 50 grams per metric ton ore.

Danafloat 468 is effective in the pH range of 4 to 12.

Composition

Chemical name:	s-butyl-dtp-Na and ethyl-dtp-Na
CAS name:	Phosphorodithioic acid, O,O-bis(1-methylpropyl)ester, sodium salt and Phosphorodithioic acid, O,O-diethyl ester, sodium salt
Active ingredient:	21-24% and 21-24% by weight respectively

Physical properties

Appearance:	Light brown
Form:	Liquid (aqueous solution)
Boiling point:	102 degrees C
Melting/freezing point:	Minus 8 to minus 10 degrees C
Specific gravity:	1.14 g/ml
Flash point:	None



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danafloat.com**Safety and handling**

Danafloat flotation collectors are manufactured under carefully controlled conditions. However, to varying degrees they can be

considered harmful and therefore before handling this product always carefully read and understand the MSDS for this product.

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 468 is biodegradable. The majority of the collector is 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
IBC containers	Net weight:	1,000-1,075 kg
	Gross weight:	approx. 1,059-1,134 kg

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