



Danafloat™ 507 E mineral collector

Application

Danafloat 507 E is an aqueous solution of dialkyl dithiophosphate and thionocarbamate.

Danafloat 507 E is normally added to the grinding circuit or in a conditioner and it has no or very little frothing action.

Danafloat 507 E offers good selectivity of mineral over pyrite and has been used in applications involving chalcopyrite, bornite, chalcocite and covellite copper ores. It has also found use in a mixed oxide-sulphide copper ore in conjunction with xanthate. Other applications are in the flotation of galena and Cu-activated sphalerite. *Danafloat 507 E* is a good collector for tetrahedrite.

Danafloat 507 E is a very fast and quite powerful collector and it should be used in smaller quantities than xanthate.

Danafloat 507 E can be added undiluted or as an emulsion with water to 1-10% solutions.

The dosage of *Danafloat 507 E* varies with the type of ore, but is normally lower than for xanthates. Recommended dosage is between 10 and 50 grams per metric ton ore.

Danafloat 507 E is normally used in the pH range from 4 to 12.

Composition

Chemical name:	i-butyl-dtp-Na, thionocarbamate and isobutanol
CAS name:	Phosphorodithioic acid, O,O-bis(2-methyl propyl)ester, sodium salt and O-Isopropylethylthionocarbamate and isobutanol
Active ingredient:	32-35%, 28-31%, 0.8-1.2% by weight respectively

Physical properties

Appearance:	Light brown
Form:	Liquid (aqueous solution)
Boiling point:	101.5 degrees C
Melting/freezing point:	Minus 6 to minus 8 degrees C
Specific gravity:	1.077 g/ml at 20 degrees C
Flash point:	Above 90 degrees C



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

Danafloat 507 E is harmful if swallowed and causes irritation to 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 507 E is biodegradable. The majority of the collector is tied up with the concentrate and is destroyed in the subse-

quent 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 approx. 247 kg for coated steel drums

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