Chemical Solutions Inc.

PRODUCT INFORMATION SHEET

DSS o-70

DSS o-70 (Dioctyl sodium sulfosuccinate 70)

DSS o-70

Dioctyl sodium sulfosuccinate 70

Surfactant

CHEMICAL- PHYSICAL CHARACTERISTICS

Physical State:	Clear yellowish- viscous liquid.
Density g/cc (25°C):	1.05-1.15
pH (1%) :	6-8
Purity (%):	70
Solubility	Dispersible in water

PROPERTIES- APPLICATIONS

Dioctyl sodium sulfosuccinate 70 (DSS o-70) is a product that modifies the surface tension causing solid particles to become wettable, this allows water and biocides to drain or slide, and penetrates into the organic material that is adhered to the cooling systems. It acts as a weak emulsifier allowing an adequate dispersion of the hydrocarbon contaminations in the cooling systems. These contaminants are eliminated by overflow gradually.

Dioctyl sodium sulfosuccinate 70 is a product that improves properties as a drainer agent in silica sand processes and in the mining industry in general.

DSS o-70 is an anionic product that imparts wetting, emulsifying, dispersing, detersive and penetrating properties, as hydrophilic colloid stabilizers.

DSS o-70 is completely stable in neutral aqueous systems; since in cold or hot temperatures it shows good stability in pH ranges from 2.0 to 9.0. However DSS o-70 can be hydrolyzed under strongly acidic or alkaline conditions.

Dioctyl sodium sulfosuccinate is soluble in many organic solvents and poorly soluble in water. It is an anionic compound with wetting characteristics.

DSS o-70 in doses of 10 to 150 ppm helps

penetrate the biomass in cooling systems doing more effectively the microbicide action. For Hydrocarbons contamination DSS o-70 can be used in doses of 100 to 500 ppm, depending on the contamination level. In filtration of concentrated solutions, and generally in the filtration of filter cakes, DSS 70 can be used in doses of 20 to 50 ppm to reduce the moisture, and prevent fouling of salts in the filters in order to improve the efficiency on the systems.

In metal extraction by leaching, DSS o-70 significantly improves the penetrating action of the reagents, and generally decreases leaching time. Some processes of this type are:

In the soluble salts washing in some processes as:

- Elimination of halogens and salts of phosphate rock concentrates.
- Gravity concentration by shaking tables, spirals, cyclones, etc.; Hydroseparation of crushed ore from grinding pulps, DSS o-70 can be used as a wringer in doses of 50 to 100 ppm, and significantly improves separation, because hydrates flocs that tend to form in alkaline pulps.

It is also used in some pesticides in the agriculture field, DSS o-70 in small amounts helps to improve separation, due to the wetting action exerted on the crushed ore.

HANDLING AND SAFETY

DSS o-70 can be handled in containers of steel, aluminum and polyethylene. DSS o-70 can be handled with centrifugal-dosing pumps, or any other type of pump. Once dissolved in water rubber containers, glass containers, and polyethylene tanks are recommended.

Use rubber gloves and goggles to handle DSS 0-70.

PRESENTATION

DSS o-70 is available from 5, 55 gallon drums to 265 gallon IBC totes.

*Special prices in bulk quantities.

Note. The information in this data sheet is provided in good faith, based on experience using the product. No representation or warranty, expressed or implied, is made as to the accuracy or completeness of the information of the data contained herein, LGA Chemical Solutions, Inc. shall have no obligation or liability whatsoever with respect to any such information or data, including, but not limited to, any liability for infringement of patents or other industrial property rights. There is no liability for

misuse of company product.

LGA Chemical Solutions, Inc. shall in no event be liable for incidental or consequential damages, including, without limitation, lost profit, loss of income, or loss of business opportunities, or any other related costs and expenses.

The specifications provided in this technical paper are averages, and do not imply final shipping quality, until accepted by written means by customer and the supplier, meanwhile can be changed without previous advice.

For additional information see the product MSDS.