



CITRIC ACID (Anhydrous)

DESCRIPTION

Anhydrous citric acid (C₆H₈O₇) is a multi-purpose weak organic acid. It is widely used in the food, beverage and detergent industry, and also finds some oilfield applications. Citric acid is relatively non-toxic, non-corrosive and is biodegradable.

PROPERTIES

Physical		Chemical	
Appearance:	White powder or granules	Type:	Organic acid
Specific Gravity:	1.66	Solubility:	Soluble (60% @ 20°C)
Melting Point:	153°C	pH:	2.2 (1% solution)
Flash Point:	Not applicable	Microtox:	Not applicable

APPLICATION

Anhydrous citric acid is widely used in oilfield completion and stimulation operations as an iron sequestrant. It can also aid in reducing water requirements and in retarding of oil well cements. Because of its ease and relative safety of handling, citric acid can be used in the pH adjustment of drilling fluids, completion fluids and industrial/oil-well waste fluids.

MIXING AND HANDLING

Although citric acid is of low hazard and toxicity, excess exposure to dust should be avoided to prevent irritation to the eyes, skin and respiratory tract. Use good industrial hygiene practices, wear goggles and a dust mask when handling the material. Ensure that the work area is sufficiently ventilated to avoid dust build-up and wear protective clothing to prevent excess skin contact. Citric acid is non-flammable. As with all organic material, caution is advised when storing or handling near strong oxidizing agents, alkali metals or strong bases.

WHMIS: Controlled (see MSDS)	TDG: Not regulated	PACKAGING: 25 kg sack
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