

JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

SULFURIC ACID



General Description

SULFURIC ACID is an industrial chemical which is used in the manufacturing processes of many goods over a wide range of applications. **SULFURIC ACID** used in pulp and paper industry for chlorine dioxide generation, tall oil splitting and pH-adjustments for chemical processes and waste water treatment. Also used in treatment of metals to remove impurities, rust or scale from the surface, such as in steel making.

Dilution

SULFURIC ACID should be only handled by fully trained personnel. **SULFURIC ACID** is extremely exothermic and reacts very vigorously with water in a highly exothermic reaction. If you add water to concentrated **SULFURIC ACID**, it can boil and spit and personnel may get splashed resulting in acid burn. Mixing **SULFURIC ACID** and water is particularly risky because any splashed acid is corrosive enough to immediately burn skin and clothing. When mixing **SULFURIC ACID** or another strong acid, start with a volume of water large enough to absorb the heat of the reaction. Add the acid in small amounts of volume and stir thoroughly prior to adding more.

Physical Properties

Color	Clear colorless to yellow / brown liquid
Specific Gravity	1.84
pH, 1% Solution in water)	< 1
Water Solubility	Soluble with much heat

Availability

SULFURIC ACID is available in 5 gallon pails, 55-gallon drums, and bulk quantities.

Handling

Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. May be fatal if mist inhaled. Strong inorganic acid mists containing sulfuric acid may cause cancer. Concentrated sulfuric acid reacts violently with water and many other substances under certain conditions. May cause lung damage. Hygroscopic (absorbs moisture from the air). Corrosive to metal. Observe warning label on containers. Normal precautions for industrial chemicals apply. This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this product to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.