

Paratene[®] M390

Organic Acid

Description

Paratene[®] M390 is a highly concentrated (50% active) liquid organic acid. Paratene[®] M390 is a strong acid and can be used in place of hydrochloric or sulphuric acid for cleaning and dip tank applications.

Paratene[®] M390 can be used in cleaning process equipment, acid pickling, oilwell stimulation or other forms of equipment clean out.

Features and Advantages

- ❑ **Low Toxicity**
- ❑ **Contains No Chlorides – Safe on Stainless steel**
- ❑ **High performance**
- ❑ **Highly Concentrated**
- ❑ **Biodegradable**
- ❑ **Versatile**
- ❑ **High solubility limits for cations**

Typical Physical Properties

Appearance	Clear liquid
Specific Gravity	1.25
Flash Point	None
pH	0
Freeze Point	-45°C
Ionic Character	Nonionic

Methods of Application

Paratene[™] M390 should be diluted before use. Concentrations of 5% - 10% are recommended for removing scale and oxides. The product should be heated to obtain the best reaction rate.

Corrosion inhibitors must be added when the product is used in systems containing carbon steel or copper based metals. Woodrising Resources recommends using Paratene[®] I209 at 0.2% for applications up to 90°C.

Paratene[®] M390 can be combined with other products such as Paratene[®] M301 or M302 to control ferric ion corrosion and improve iron oxide removal. Paratene[™] M310 to control the release of hydrogen sulfide or with Thiourea to aid in the removal of copper.

M390 has been tested and found effective in removing magnetite (Fe₃O₄), hematite (Fe₂O₃) calcium carbonates (CaCO₃), iron sulfide (FeS) and dolomite (CaMg(CO₃)₂). Other scales and deposits should be tested prior to use.

Safety and Handling

Paratene[®] M390 contains a strong acid and is corrosive to the eyes and skin, avoid prolonged contact and inhalation of mists or fogs.

Refer to the MSDS for details