Physical Characteristics

LST Heavy Liquid contains 80% heteropolytungstates in the form of extremely soluble, hydrated crystals dissolved in water.

LST HeavyLiquid

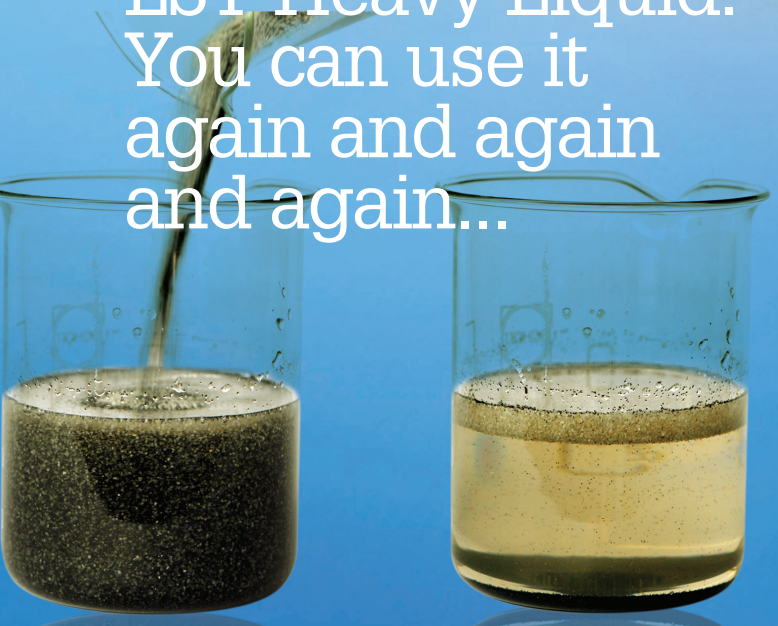
Light on the Environment

Many products are classified as 'recyclable', but most are recycled by changing them into something different. LST Heavy Liquid is recyclable – and it stays as LST Heavy Liquid. You can use it again and again and again.

After use LST Heavy Liquid is easily recovered. Simply wash the separated minerals with deionised water, filter and then concentrate the water washings through the simplest evaporation process possible – boiling. This simple process recycles LST Heavy Liquid with greater than 99% efficiency. That's only 1.5 mL per kilogram lost with general usage. Recycling doesn't come much better than that.

Not only kind to the environment, LST Heavy Liquid is kind to you too. With low toxicity and containing no solvents this product eliminates the need for fume cupboards and extensive safety gear. You may not be green and leafy but you are still part of the LST Heavy Liquid environment.

LST Heavy Liquid is recyclable – and it stays as LST Heavy Liquid. You can use it again and again and again...



LST Heavy Liquid can be safely put to use outside the fume cupboard...

Low Toxicity **Friendly to the Environment** **Fast Filtration** **Speedy Separation** **Stable and Reusable**

Safety

Unlike organic heavy liquids, which are volatile, have high toxicity and require careful handling, LST Heavy Liquid has a much more stable character. With low toxicity, no solvents and no volatile tendencies LST Heavy Liquid can be safely used without a fume cupboard.

Thermal

In addition to its stable nature LST Heavy Liquid has high thermal stability, which means that it can be boiled to evaporate water and regain its original high density. This unique characteristic ensures that recycling is a rapid, simple and effective process.

Operating Density

LST Heavy Liquid is supplied at a density of 2.85 g/mL. At temperatures of 25oC it can be used at any density up to 2.9 g/mL. This can be achieved by simply evaporating to remove water. At temperatures higher than 25oC further evaporation can give liquid densities up to 3.5 g/mL. Diluting LST Heavy Liquid is a simple matter of adding water.

Viscosity

As with many liquids the viscosity of LST Heavy Liquid varies with density and temperature. However, LST Heavy Liquid has a naturally low viscosity with viscosities at typical temperatures of about 11 cP – lower than any other tungstate heavy liquid. This feature gives LST Heavy Liquid rapid and sharper separations.

Storage & Use

If you store LST Heavy Liquid in closed plastic or glass containers you can keep it in good order indefinitely. Cold conditions can cause crystals to appear. However, they will soon dissolve when the liquid is warmed.

Because LST Heavy Liquid reacts with some metals it should be kept out of contact with these during storage and heavy liquid separations.

Central Chemical Consulting

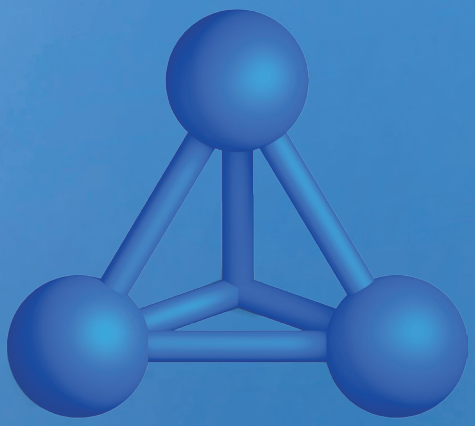
About Us

We are the original developer and manufacturer of LST Heavy Liquid and, as such, we are still as passionate about it today as we were when it first hit the scene! Because we love what we do our service is friendly and efficient and our product is competitively priced.

Our high level, PhD qualified team provide enviable technical backup and support second to none.

So if you work with mineral sands, palaeontology, diamond exploration, palynology or geology research we are the people you need to speak to first. We've gone a long way to get you just the right product. Why? Because we knew it was possible.

If you are looking for a product to separate ilmenite from quartz or isolate diamond indicator minerals from sand or remove clay from conodonts then we are the people you need to call...



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