

Subject: Re: Fwd: coolant MSDS
From: Dennis Coyne <coyne@ligo.caltech.edu>
Date: Tue, 19 Oct 2010 08:51:19 -0700
To: Ken Mason <kmason@ligo.mit.edu>

LIGO-E1000610-v1

Ken,

I grant a waiver for the use of Ecocool AP-71 to machine the sealing flange of the SEI storage containers.
Dennis

Ken Mason wrote:

Dennis,

We have been able to find shops that can swap out their coolants for all parts inside the storage container except the 8' diameter o-ring flange, I would like approval to be able to use the AP-71 on the flange only. A couple things to note:

- AP-71 is a concentrate that is diluted 8:1 with water. The actual mineral oil content in the machine is just over 1%.
- After machining, the flange goes to a weld shop to be welded to the can and thoroughly cleaned with stainless steel wool, acetone and "simply green".
- The storage containers are cleaned at each of the sites prior to use.
- The HAM ISI will not contact this flange and the supplier is willing to perform any additional cleaning we request to ensure the flange is clean.

I appreciate your help with this, we will need the storage containers in a couple of weeks.

Thanks,
Ken

On 10/7/2010 6:14 PM, Dennis Coyne wrote:

Ken,

The Ecocool AP-71 has up to 10% mineral oil. No it is not acceptable.
Dennis

Ken Mason wrote:

Dennis and Calum,

The fabrication shop that is building our HAM storage containers would like to use Ecocool AP-71 to machine the sealing flange and other parts inside the storage container. Attached is the MSDS and the specs can be found here:

http://www.fuchs.com.sg/index.php?option=com_content&task=view&id=64&Itemid=47

We are holding the storage container fabricators to the same specifications as components for use in Aligo vacuum system.

<https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=6621>

This is a water soluble cutting fluid that does not contain silicone, chlorine, sulphur, or nitrates but does contain a small amount of oil according to the local rep (I do not see it in the MSDS or spec).

They would like to use this because it is in their machine and would save time not to have to replace it. They would clean the parts thoroughly with Simply Green after machining. Do you think it would be OK for them to use this for the storage containers?

Thanks,

Ken

----- Original Message -----

Subject:coolant MSDS

Date:Tue, 05 Oct 2010 09:06:45 -0400

From:Anthony Colognesi <tony@ssmwusa.com>

To:Ken Mason <kmason@ligo.mit.edu>