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## SERVICE BULLETIN

### MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 06 - 2021

**BULLETIN NO:** 21-004

**TITLE:** SafetyFluid 46 - Acceptable Alternative to EcoSafe FR46 Hydraulic Fluids  
SafetyFluid 68 - Acceptable Alternative to EcoSafe FR68 Hydraulic Fluids

**RATING:**

<input type="checkbox"/>	<b>DIRECTIVE</b> (Action Is Required)	<input type="checkbox"/>	<b>ALERT</b> (Potential Problem)
<input checked="" type="checkbox"/>	<b>INFORMATION</b> (Action Is Optional)	<input type="checkbox"/>	<b>PRODUCT IMPROVEMENT</b> (Enhance Product)

**PRODUCT SERIES / MODEL:** All machines using Eco-Safe FR Hydraulic Fluid

**SERIAL NO:** N/A

**SUMMARY:** EcoSafe FR46 - Harsco Rail numbers 415075 (55 gal. drum) and 3403094 (5 gal. pail) - is no longer an American Chemical Tech Inc. (ACT) product and is now supplied through Shell/Pennzoil. This fluid now commonly goes by the name Shell EcoSafe S3 DU 46. This fluid is still acceptable if it is available in your area. EcoSafe 46 fluid is Light-Blue in color.

SafetyFluid 46 is manufactured by European Chemical Technologies (ECT) and is an acceptable alternative fluid for any machine currently using EcoSafe FR46. It is not necessary to drain the system before starting to use SafetyFluid.

Harsco Rail numbers are as follows:

5122796 – SafetyFluid 46, UOM gallon, sold as 53 gallon (200 liter) drum

5122797 – SafetyFluid 46, UOM each, sold as 5 gallon (20 liter) pail

Similarly, for hot climate machines, EcoSafe FR68 - Harsco Rail number 5073832 (55 gal. drum) is now known as Shell EcoSafe S3 DU 68. This fluid is also still acceptable if available. EcoSafe 68 fluids are Light-Blue in color. It also has an equivalent ECT alternative - the Harsco Rail number is:

5122856 - SafetyFluid 68, UOM gallon, sold as 53 gallon (200 liter) drum

SafetyFluid 46 and 68 have a different color - Light-Amber/Orange, but EcoSafe and SafetyFluid are fully compatible and miscible (can be mixed). As the percentage of SafetyFluid increases, the color of the fluid in the system will become progressively lighter blue, and then progressively more blue-green. When the fluid is 100% SafetyFluid, the color will be a light amber/orange.

**OPERATIONAL IMPACT:**

Provided normal care is taken to keep the hydraulic system and heat exchangers clean, SafetyFluid and EcoSafe can be mixed in any proportion with no operational impact.

**ACTION:**

No action is required, except to note the fact that SafetyFluid is approved as an acceptable alternative to EcoSafe.

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