



# PRODUCT DATA SHEET



---

## NO-TOX<sup>®</sup> FOOD GRADE FIRE RESISTANT HYDRAULIC OIL

**No-Tox Food Grade Fire Resistant Hydraulic Oil**, commonly known as No-Tox F.R. Hydraulic Fluid 46 WG, is a fire resistant hydraulic oil. **No-Tox Food Grade Fire Resistant Hydraulic Oil** is NSF H1 registered for use where incidental food contact may occur. **No-Tox Food Grade Fire Resistant Hydraulic Oil** is designed to give exceptional wear protection for hydraulic pumps, motors and bearing applications found in the "clean" industries such as food, beverage, pharmaceutical and personal care products where a fire hazard may exist. **No-Tox Food Grade Fire Resistant Hydraulic Oil** compatible with most seal materials however, filter elements used to clean **No-Tox Food Grade Fire Resistant Hydraulic Oil** should be rated for use with aqueous solutions.

### *Applications*

---

- ◆ Pumps, motors, actuators
- ◆ Circulating systems
- ◆ Bearings, spindles, gears

### *Features and Benefits*

---

- |                                  |   |
|----------------------------------|---|
| ◆ NSF H1 registered              | Use where incidental food contact may occur.  |
| ◆ Compliances                    | Kosher and Pareve approved. Halal certified.  |
| ◆ Bacteriological protection     | Effectively inhibits the growth of certain bacteria, yeast and mold in the lubricant. |
| ◆ Excellent anti-wear properties | Good pump protection.   |
| ◆ Soluble in water               | Eliminates sticking and clogging.   |

### *General Description*

---

**No-Tox Food Grade Fire Resistant Hydraulic Oil** is formulated for use where NSF H1 approved fire resistant hydraulic oil is needed. It was developed for service in hydraulic applications where a fire hazard exists and petroleum based hydraulic oil could be potentially unsafe. **No-Tox Food Grade Fire Resistant Hydraulic Oil**, formulated with the highest quality synthetic fluids and food grade additives, meets all NSF H1 and FDA requirements for materials that may have incidental contact with food as defined under Title 21 CFR, 178.3570. It is Kosher and Pareve approved, as well as Halal certified.

**No-Tox Food Grade Fire Resistant Hydraulic Oil 46 WG** has been tested to Standard 6930 for Flammability of Industrial Fluids and listed by FM Global as an "FM Approved" product.

### *Product No. 77046*

Page 1 of 2

*With continual research and development, Bel-Ray Company reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.*

2/27/2015

# **NO-TOX<sup>®</sup> FOOD GRADE FIRE RESISTANT HYDRAULIC OIL**

## **TYPICAL PROPERTIES**

<b><u>Product No.</u></b>	<b><u>77046</u></b>
Bel-Ray Name Grade	46 WG
ISO Viscosity Grade	46
ISO Fire Resistant Fluid Classification	HFC
Viscosity, ASTM D445	
@ 20°C, cSt	111
@ 40°C, cSt	49.1
Viscosity Index, ASTM D2270	197
Pour Point, ASTM D97	
°C	-48
(°F)	-54
Rust Test, ASTM D665, Procedure A	Pass
4-Ball Wear Test, ASTM D4172	
@ 1200 rpm, 40 kg, 1 hr, 75°C	
Scar Diameter, mm	0.60
Vickers 104-C Vane Pump Test, ASTM D7043	
Total Mass Loss, mg	<25
Flash Point, ASTM D92	None
Specific Gravity, ASTM D1298, 60/60°F	1.056
Flame Test Results,	
Steady Stream on Pressurized Flame	Pass
Steady Cloud of Vapors on Pressurized Flame	Pass
Color	Water-white