# OIISafe AR Temps

Oil Safe AR® 1050 Blend is a safe yet functional replacement for traditional hydrochloric acid treatments and other commonly used oilfield acid treatments. It is non-regulated by US DOT, Canadian TDG and carries a triple zero hazardous materials information system score. Oil Safe AR® is biodegrades in 10 days or less and is approved by the US EPA as a Designed for the Environment product. Our standard Oil Safe AR® formula includes iron control agents, de-mulsifiers and requires no organic acid additions or corrosion inhibitors under most conditions.

### FEATURES AND BENEFITS:

- An excellent choice for fracs, spearhead treatments, injection wells and disposal wells and annular soaks
- Requires <u>no</u> organic acid additions to help retard reaction rates
- 12.5% 15% HCL performance comparison
- Standard formula includes surfactant and de-mulsifier system
- Requires no iron control agent addition for most applications
- EPA DfE formula; biodegradable in 10 days or less; approved for direct discharge; made with Cleangredients and DfE ingredients approved by the EPA
- Safe on most metals, piping and pumping equipment
- Non toxic; non fuming; non mutagenic; no VOC's
- No secondary containment required as per Chapter 62-761F.A.C.
- Eliminates foulants
- An excellent choice for work-over projects, bullhead treatments and cement remediation
- ullet Requires  $\underline{no}$  additional corrosion inhibitor step for most applications
- 100% biodegradable, acid free and naturally inhibited

DISSOLVING	<b>PROPERTIES</b>

ACID TYPE	% CaCO <sup>3</sup>
Oil Safe AR® 100% Solution	100.00%
Oil Safe AR® - 1050 Blend	96.76%
Oil Safe AR® - 1030 Blend	54.00%
7 ½ HCI	46.48%
15% HCI	87.39%
7½ HCI + 100 gpt of 85% Acetic Acid	75.08%
15% HCI + 100 gpt of 85% Acetic Acid	97.87%
10% Acetic Acid	21.00%
15% Acetic Acid	63.09%
Each test above was conducted with 1 cubic inch of mat	erial placed in 50 ml of
solution and allowed to soak for 8 hrs at 100°F.	

# **TYPICAL PHYSICAL PROPERTIES:**

Appearance and Color	Colorless to slight yellow liquid	
Initial Freeze Point	Not established	
Odor	Odorless to mild soapy odor	
Solubility in water	100%	
Flashpoint	None	
Specific Gravity	1.08 ± 0.04	

### DIRECTIONS FOR USE:

Oil Safe AR® 1050 Blend is preblended during the manufacturing process at a dilution rate of 50:50 with  $\rm H_2O$ . Further product dilution is not required.

Note: Oil Safe AR® 1050 Blend contains iron control agents and demulsifiers. No organic acid or corrosion inhibitors are required due to the power of our patented Syntech®.

Blending ratios may vary based on specific applications and recommendations from your consultants at Heartland Energy Group, Ltd.

# STORAGE AND HANDLING:

Oil Safe AR® has a storage life of better than one year. Keep container closed when not in use. As with all chemical products and materials, take care as to where you store them. Safety glasses are suggested for use when handling this product. No special gloves or protective equipment are required when handling this product.

When pumping this product, it is strongly recommended to use manufacturer approved hose couplings or fittings. DO NOT USE ALUMINUM FITTINGS, 316 Stainless Steel, polypropylene, polyethylene are recommended.

## PACKAGING:

Oil Safe AR® is shipped in 275g totes or bulk tanker trucks from the manufacturing facility. Smaller packaging quantities are available upon request.

Recommendations given in this data sheet are based on tests believed to be reliable. However, the use of the information is beyond the control of Heartland Energy Group, Ltd., and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.



www.HeartlandEnergyGroup.net

Phone: 1.877.797.2811