The SCA-130™ sulfide-cracking inhibitor is an antisulfide-cracking agent that can be used in combination with corrosion inhibitors in acid systems when treating sour-gas (hydrogen sulfide (H₂S) producing) wells. The inhibitor is a liquid additive that minimizes H₂S cracking of high-strength steels and enhances the performance of corrosion inhibitors in acid solutions when H₂S is present.

The inhibitor acts as an antisulfide-cracking agent by reacting (scavenging) with the H₂S to a compound, which then coats the pipe.

**Applications**
The SCA-130 sulfide-cracking inhibitor is ideal for wells that produce sour gas when acid is pumped in. The inhibitor can also be used in applications that will produce H₂S, such as dissolving iron-sulfide scale. Application of the inhibitor can help prevent sulfide cracking of tubing that might occur in such situations. The inhibitor is also incorporated into the SWIC™ II acid system as a sulfide scavenger to help prevent the precipitation of iron-sulfide compounds or elemental sulfur from that acid system as it spends to completion in sour-well environments.

**Features**
- Liquid form
- Ideal for acid fluids in sour well applications and the SWIC II acid system
- Appropriate for high temperature wells when used in acid blends as either a sulfide-cracking inhibitor or as a sulfide scavenger

**Compatibilities**
The SCA-130 sulfide-cracking inhibitor should not be used in acid blends containing SGA-II™, SGA-III™, or SGA-V™ gelling agents, because the inhibitor can crosslink with those agents.

Using specific well and reservoir parameters, treatment recommendations and fluid system designs can be provided to help provide an integrated treatment design and fluid formulation to optimize results.

The SCA-130 sulfide-cracking inhibitor must not be used in non-acid treatment fluids, because it is ineffective in them.

**Benefits**
- Functions as a H₂S scavenger
- Helps prevent sulfide cracking of high-strength steels when sour wells are acidized with hydrochloric (HCl) acid-containing treatment fluids
- Can be used with both HCl- and organic-acid blends
- Helps improve the performance of corrosion inhibitors in acid solutions when H₂S is present
- Helps prevent the formation of iron sulfide or elemental sulfur in sour wells that are acidized with HCl acid upon spending of the acid.

**Concentration Recommendations**
The SCA-130 sulfide-cracking inhibitor is typically run at a concentration of 0.4% by volume when used as a sulfide-cracking inhibitor. Well-specific inhibitor concentration may be recommended for optimum results.

When used as a sulfide scavenger in the SWIC II acid system, the inhibitor should be used at a concentration range of 2 to 6% by volume, depending on the amount of H₂S expected in a particular application.

One gallon of the inhibitor will scavenge 1.7 lbm of H₂S. This amount can be used to help determine the proper loading.

**Corrosion Mitigation**
The SCA-130 sulfide-cracking inhibitor can enhance the effectiveness of corrosion inhibitors used in both HCl- and organic-acid blends.

**Mixing**
The SCA-130 sulfide-cracking inhibitor performs best when added on the fly to the acid blend as it is being pumped downhole.

If on-the-fly addition is not possible, it is recommended to add the inhibitor to the acid blend operation for minimum time delay before pumping and then pump downhole within two hours of its addition.
### SCA-130™ Sulfide-Cracking Inhibitor Product Specifications

<table>
<thead>
<tr>
<th>Hazardous Material Number</th>
<th>SAP No.</th>
<th>Package</th>
<th>Order From</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM001243</td>
<td>101204276</td>
<td>Hal tank</td>
<td>Local warehouse or procurement agent</td>
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<tr>
<td></td>
<td>100001629</td>
<td>55-gal Drum</td>
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<tr>
<td></td>
<td>10063985</td>
<td>5-gal Bucket</td>
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<td></td>
<td>101227270</td>
<td>1-pt Sample</td>
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### SCA-130™ Sulfide-Cracking Inhibitor Properties Specifications

<table>
<thead>
<tr>
<th>Form</th>
<th>Color</th>
<th>Freezing Point, °F (°C)</th>
<th>Flash Point, °F (°C)</th>
<th>Specific Gravity</th>
<th>Density, lbm/gal</th>
<th>Ionic Charge</th>
<th>pH</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Clear color-less to pale yellow</td>
<td>-22 (-30)</td>
<td>65 (18)</td>
<td>1.053</td>
<td>8.77</td>
<td>Nonionic</td>
<td>5 to 7</td>
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</tbody>
</table>

For more information contact your local Halliburton representative or visit us online at www.halliburton.com