

SOPURED

453/23/05/07/A1

<i>COMMERCIAL FORM</i>	Yellowish liquid.
<i>APPLICATIONS</i>	Prevention and removal of scale caused by salts responsible for water hardness during cleaning of bottle washers, heat exchangers, etc.
<i>COMPOSITION</i>	Product based on sequestering agents.
<i>PROPERTIES</i>	<p>SOPURED is stable at all temperatures, completely soluble and non-corrosive.</p> <p>It is particularly suitable for the neutralisation and the solubilisation of salts responsible for the water hardness in alkaline medium.</p> <p>It should be noted that a part of SOPURED will complex the water hardness components and that an excess is needed to solubilise the salts which would have precipitated. The excess should be ca 0.1-0.3 % v/v.</p> <p>This product can be applied in the food industry (brewery, soft drink, etc.) and meets all national and European related legislations currently in force.</p>
<i>USE CONCENTRATION</i>	<p>If a soft water supply is unavailable then 13.5 ml SOPURED is required per hectolitre of water to neutralise 1°DH or 17.8 ppm CaCO₃ (or 7.5 ml for 1°FH).</p> <p>Generally : 0.1-1.0 % v/v SOPURED at temperatures from cold up to 80°C.</p>
<i>CONCENTRATION ANALYSIS</i>	<p><u>Titration of total EDTA</u> (in working solution)</p> <ul style="list-style-type: none">. Pipette 10 mls of the working solution of the product.. Add ca 100 mls of distilled water.. Add 10 mls of acetic buffer. (1.4 M CH₃COOH/1 M CH₃COONa; pH 4.5).. Add 2 to 3 drops of PAN indicator.. Titrate against a 0.01 M solution CuSO₄ until the colour of the indicator changes from yellow to a stable bordeaux red. <p>% v/v SOPURED = mls of 0.01 M CuSO₄ solution x 0.077. % w/v SOPURED = mls of 0.01 M CuSO₄ solution x 0.100.</p> <p><i>It should be noted that this method can also be applied if presence of caustic soda (if the concentration > 3 %, the quantity of acetic buffer should be doubled).</i></p>

SOPURED

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Titration of free EDTA (in working solution)

- . Pipette 10 mls of the working solution of the product.
 - . Add ca 100 mls of distilled water.
 - . Add 2 mls of ammonia.
 - . Add an indicator pastil MERCK art. 8430.
 - . Titrate against a 0.01 M ZnSO₄ solution until the colour of the indicator changes from green to red.
- % w/v free SOPURED = mls of 0.01 M ZnSO₄ solution x 0.10.

This method can also be applied in presence of caustic soda; before proceeding on titration, neutralisation of the caustic soda with HCl N should be carried out.

Theoretical sequestering power : 100 mg CaCO₃/g.
Specific gravity : 1.290 +/- 0.015.

PACKAGING

Jerrycan - drum - IBC on request.

FIRST AID

Take off immediately all contaminated clothing.
Skin contact : rinse the affected part with plenty of water during at least 15 minutes without touching any other part.
Eyes contact : rinse immediately with plenty of water during 15 minutes; consult a specialist.

SAFETY PRECAUTIONS re : material safety data sheet

TRANSPORT ADR-RID :
IMO : re : material safety data sheet