SOPUROXID 5

153/12/06/07/B1

COMMERCIAL FORM

Clear colourless liquid.

APPLICATIONS

General purpose sanitizer for use mainly on CIP systems for tanks, pipeworks, etc. For use after cleaning.
At the recommended concentration for the application, SOPUROXID 5 is bacteriocidal, fungicidal, sporicidal and virucidal.

COMPOSITION

Product based on a stabilised blend of ca. 5 % w/w peracetic acid ca. 20 % w/w hydrogen peroxide.

PROPERTIES

SOPUROXID 5 in working solution and under the recommended use conditions, is safe for use on stainless steel, enamelled coatings, rubber and most plastics.
Maximum 0.4 % v/v on Epoxy type coating.
It should not be used on bronze, copper, zinc, brass, elastomers (synthetic rubbers for ex. Neoprene, Perbunan, etc.) and steel.
Recommended materials :
. for storing and handling the concentrated product :
PE-hd
. for pump diaphrams :
PTFE
. for seals :
EPDM.

This product can be applied in the food industry (brewery, soft drink, etc.) and meets all national and European related legislations currently in force.

USE CONCENTRATION

0.05-1.0 % v/v (maximum 0.4 % v/v on coating).
Contact time : 15-30 minutes.
Temperature : ambient.

CONCENTRATION ANALYSIS

<u>Reagents</u>
sulphuric acid (25 %)
solution of potassium permanganate 0.1 N
potassium iodide (solid)
soluble starch
solution of sodium thiosulphate 0.02 N.

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Method

. Take a 25 ml sample of working solution.
. Add distilled water up to 100 ml.
. Add 25 ml of the sulphuric acid solution (25 %).
. Titrate with the solution of potassium permanganate 0.1 N until colour changes to a very LIGHT pink.
. Add IMMEDIATELY a spatula tip of potassium iodide (ca. 1 g) and titrate with the solution of sodium thiosulphate 0.02 N. When the solution turns pale yellow, add a spatula point of soluble starch and continue the titration until blue colouration disappears.

[SOPUROXID 5] % v/v = number of ml 0.02 N $Na_2S_2O_3$ x 0.0548
[SOPUROXID 5] % w/v = number of ml 0.02 N $Na_2S_2O_3$ x 0.0608

ppm CH_3CO_3 H = number of ml 0.02 N $Na_2S_2O_3$ x 30.4
ppm H_2O_2 = number of ml 0.1 N $KMnO_4$ x 68

It is very important not to overdose 0.1 N $KMnO_4$ for the first titration.

Determination of the concentration by means of strips :

Reference :

From 5 to 50 ppm peracetic acid : merc. 1.10084.0001
From 100 to 500 ppm peracetic acid : merc. 1.10001.0001
Supplier : Merck.

Specific gravity : 1.110 +/- 0.015.

PACKAGING

Jerrycan - vessel (with venting cap).

STORAGE

Storage of packaging : **vertical.**
Always store this product in its original container.
The drum should always be tightly closed with the original venting cap.
Never return dispensed product into its original packaging.
Do not allow concentrate to come into contact with organic materials (grease, paper, rubber, etc).
For transfer, only use clean containers made from materials such as stainless steel and polyethylene.

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153/12/06/07/B3

FIRST AID	re : material safety data sheet.
SAFETY PRECAUTIONS	re : material safety data sheet
TRANSPORT	ADR-RID : IMO : re : material safety data sheet

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