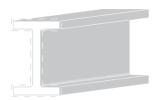




PRODUCT DATA SHEET

B3945



METSOAK AK3945

High Strength Immersion Degreaser And Rust Remover



PRODUCT DESCRIPTION

METSOAK AK3945 is a highly alkaline powdered immersion degreaser and rust remover designed to remove contamination and corrosion typically encountered in the engineering, manufacturing, and reconditioning industries. It contains a powerful blend of caustic alkalis and sequestrants designed to penetrate areas of heavy contamination and remove soils including rust, oil, oxidised grease, paint, and engine deposits. The 100% active powdered formulation has been designed to create a stable, long lasting working solution when dissolved in water, and will continue to provide excellent cleaning performance well beyond the life of similar products.

METSOAK AK3945 contains a powerful blend of chelating agents and surfactants that make it a highly effective treatment for the removal of surface rust and oxidation. The unique formulation lifts surface rust before irreversibly binding holding the iron within solution to prevent redepositing. This highly efficient method can be used as an alternative to acid-based rust removers reducing the risk hydrogen embrittlement in some sensitive alloys.

METSOAK AK3945 is suitable for use on ferrous metals however it is not generally suitable for use on non-ferrous metals which may be corroded by extended contact. It is not suitable for use on aluminium, zinc, copper, or their alloys which are likely to be significantly corroded.

FEATURES & BENEFITS

- Powdered product
- Readily soluble
- · Heavy duty formulation
- High levels of sequestrants
- Contains an advance surfactant package
- 100% active can be diluted to required strength
- · Easily diluted in water
- Penetrates areas of heavy contamination
- Efficient removal of rust and corrosion
- Effective degreasing with low foam production

PHYSICAL CHARACTERISTICS

Appearance Odour pH (2% solution) Solubility

reinhardoil.dk

reinhard oil

Telefon + 45 70267007
Telefax + 45 70267047
www.,reinhardoil.dk
mail@reinhardoil.dk

White powder Bland 12.0 - 13.0

Soluble in water at recommended usage concentrations

1 / 3 B3945 - TDS METSOAK AK3945 — 20/07/2021

ORAPI® cannot know about every application for which the products are used nor their conditions of use. ORAPI® cannot be held responsible for the suitability of the products for a given use or a specific purpose. The information contained here can on no account be a substitute for the preliminary tests which are essential and which must be carried out in order to check the suitability of the product to each pecific case.





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DIRECTIONS FOR USE

METSOAK AK3945 is typically used dissolved in water to create a detergent working solution suitable for use in immersion cleaning applications. Caution should be taken when handling as the product generates heat when mixed with water. Always dissolve by carefully adding B3945 directly to cold water to avoid localised boiling and splashing. Do not make additions of the product directly to hot solutions.

Dosing rates are dependent upon the degree and type of soiling to be cleaned. For most general cleaning application concentrations of 10 - 100 grams per litre are recommended but this can be reduced or increased batter performance. Where suitable equipment is available the working solution can be heated to a maximum temperature solution be applied at operating temperatures between 70 - 80°C.

Contact times will vary depending on the level of contamination and overnight soaking may be necessary for stubborn deposits. Following cleaning all it will be necessary to rinse all components thoroughly with fresh water to remove any chemical residue and prevent alkali staining.

SPECIAL STORAGE

Store in original containers away from direct sunlight. Protect from freezing.

HEALTH AND SAFETY

Refer to separate Material Safety Data Sheet (MSDS) for further information.

PACKAGING

METSOAK AK3945 is available in the following pack sizes:

Product Code Size Container
B3945-25 25 Kg Bucket





PRODUCT DATA SHEET

B3945

SOLUTION CONTROL METHOD

The following method can be used to determine the concentration of B3945 within a working solution by titration.

Apparatus

Measuring Cylinder Conical Flask **Burette**

Burette Filler

Reagents

Sample of bath solution to be tested (at room temperature) Phenolphthalein indicator

1.0N Hydrochloric Acid (HCI)



Method

- 1. Measure out 10ml of the product to be tested into the measuring cylinder and transfer to the conical flask.
- 2. Add 100ml clean water to the conical flask.
- 3. Add a few drops of phenolphthalein indicator. The solution should turn pink.
- 4. Titrate with 1.0N HCl until a permanent colour change of pink to colourless is observed.
- 5. Record the volume of 1.0N HCl added as T.
- 6. Use the calculation below to determine the amount of METSOAK AK3945 in solution.

Concentration B3945 (grams / litre) = $\mathbf{T} \times 5.3$

7. Alternatively consult the graph below to determine the concentration of METSOAK AK3945 in solution.

B3945 Concentration by Titration 20.0 18.0 16.0 Volume 1.0N HCI Added (ml) 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 0.0 2.0 8.0 10.0 1.0 4.0 5.0 6.0 9.0

Concentration B3945 in Solution (%)

3/3 B3945 - TDS METSOAK AK3945 - 20/07/2021

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