CLEAN

ORAPI MAINTENANCE

TECHNICAL DATA SHEET

METSOAK AK3914

A3914

Mildly Alkaline Non-Silicated Cleaner



DESCRIPTION

METSOAK AK3914 is a liquid immersion degreaser designed for removing greases, oils and carbonised soils typically encountered in the engineering, manufacturing, and transport industries. It contains a sophisticated blend of surfactants and detergents that can effectively clean and degrease the most heavily contaminated surfaces without damaging the base metal.

METSOAK AK3914 has been designed as a non-caustic alternative to common alkaline immersion cleaners. The silicate free formulation is safe for use on ferrous and non-ferrous metals and is compatible with most sensitive metals and multi metal applications.
METSOAK AK3914 is a versatile formulation and can be used in a wide range of immersion cleaning applications. The liquid formulation is compatible with automatic dosing equipment which allows maximum control over the bath concentration and ensures a consistent finish every time. It is economical to use and can be readily diluted to suit a range of applications. It can be used at ambient temperatures or heated up to 55°C to increase penetration on areas with heavy contamination.

FEATURES & BENEFITS

- Liquid formulation
- Advanced corrosion inhibited formulation
- Contains an advanced detergent / surfactant package
- Free rinsing product
- Suitable for use at temperatures up to 55°C
- Suitable for use with automated dosing systems
- Designed for use on sensitive metals
- High performance cleaning action and long tank life
- Leaves a residue free surface
- Reduced processing time at elevated temperatures

CHARACTERISTICS

Appearance:	Clear colourless liquid	**Concentrated pH:**	9.5
Specific Gravity (20°C):	1.130 g/cm³	**Solubility:**	Miscible in water at all concentrations
Odour:	Bland		

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STORAGE

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

DIRECTIONS FOR USE

METSOAK AK3914 is typically used diluted in water as an immersion cleaner in suitable cleaning tanks. To control the concentration of the working solution the product should ideally be dosed into the spray washer via an Orapi Applied automatic dosing system. Dosing rates are dependent upon the degree and type of soiling to be cleaned. For most general cleaning applications concentrations of 5.0% - 10.0% are recommended but this can be reduced or increased based on performance.

Where suitable equipment is available the working solution can be heated to a maximum temperature of 55°C to increase cleaning performance and decrease processing time. For best results it is recommended that the working solution be applied at operating temperatures between 45 - 55°C.

HEALTH & SAFETY

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

PACKAGING

Product Code	Volume	Container
A3914-25	25 litres	Drum
A3914-205	205 litres	Barrel
A3914-1000	1000 litres	IBC

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SOLUTION CONTROL METHOD

The following method can be used to determine the concentration of A3914 within a working solution.

Apparatus
Measuring Cylinder
Conical Flask
Burette
Burette Filler

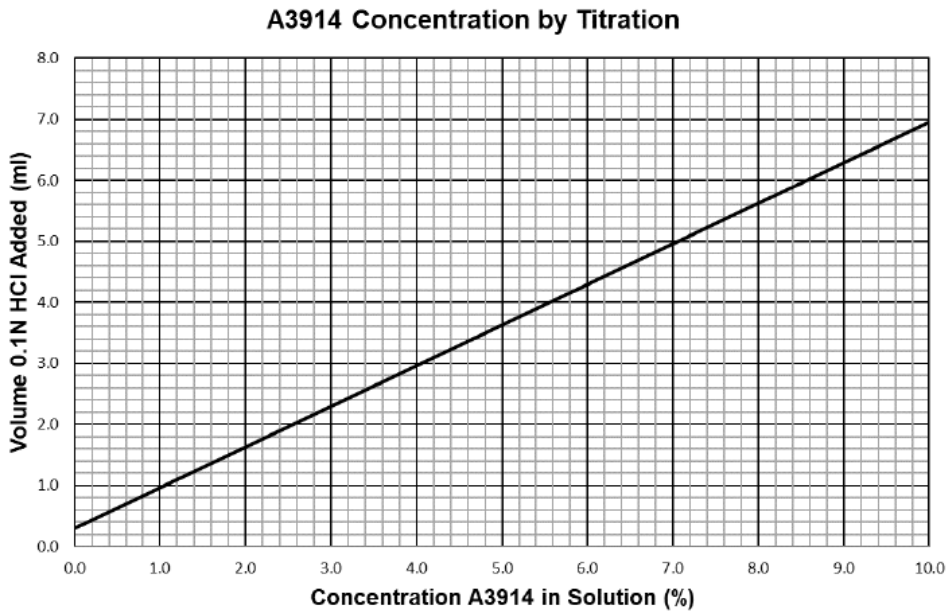
Reagents
Sample of bath solution to be tested
Bromocresol Green indicator
0.1N Hydrochloric Acid (HCl)

Method

1. Measure out 10ml of the product to be tested into the measuring cylinder and transfer to the conical flask
2. Add 40 ml of clean water to the conical flask
3. Add a few drops of bromocresol green indicator. The solution should turn blue.
4. Titrate with 0.1N HCI until a permanent colour change of blue to yellow is observed.
5. Record the volume of 0.1N CI added as **T**.
6. Repeat the titration above with 50m of clean water and record the volume of 0.1N HCI added as **B**.
7. Use the calculation below to determine the percentage of **METSPRAY AK3914** in solution.

   Concentration A3914 (% v/v) = (**T – B**) x 1.5

8. Alternatively consult the graph below to determine the concentration of **METSPRAY AK3914** in solution



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