

Technical Data Sheet

4 January 2010

Product:

HSconc-BZ-CLEAR

Description:

Hard Surface Cleaning liquid - Concentrate

This Low-viscosity liquid concentrate consists of a combination of Amphoteric & Non-ionic Surfactants, Builders, Water Conditioners, Rust Removers and Inhibitors. It dissolves immediately in cold water with mild agitation. The end product is an immensely versatile and powerful **All-Purpose Cleaner and Degreaser** which meets international environmental requirements.

Active Content: Active 38%

Recommended Dilutions: 1:19 (5%) – Standard (1.9% Active)
1:9 (10%) – Industrial (3.8% Active)

Colour: Amber, transparent

Odour: Unique

pH: 11.0 - 12.0

Viscosity: Low

Packing: 25 Kg Drum - Polypropylene
200 Kg Bung drum – High Density Polyethylene

Precautions: Highly Irritant - due to high pH.

Handling: Non-Flammable. Keep containers closed to prevent ingress of water. Due to the highly concentrated nature of the product it is recommended that processing staff wear gloves, eye protection & respiration apparatus when handling the raw concentrate.

Description and uses

This extremely useful, general purpose product can be used to clean all HARD surfaces:

Floors, walls, paving, work surfaces, all kitchen surfaces, baths & tiles, machinery, etc.

Because of its high pH it is a powerful degreaser and can be used on:

White or colourfast fabrics – to remove grease marks

As an Engine Cleaner – for motor cars & trucks

Its industrial applications include:

the washing of very greasy cooking utensils; metal cleaning; commercial laundering; degreasing of floors, machinery & equipment; etc.

NB: Due to high pH, this product is harsh on Hands & Skin. Handle with Care!

Dilution Chart - **HSconc-B2-CLEAR** - Hard Surface Cleaning Liquid

| % Use Ratio | Standard 5% | | Industrial 10% | |
|----------------|----------------|-------|-------------------|-------|
| | Conc | Water | Conc | Water |
| 2 | 0.1 | 1.9 | 0.2 | 1.8 |
| 5 | 0.25 | 4.75 | 0.5 | 4.5 |
| 10 | 0.5 | 9.5 | 1 | 9.0 |
| 20 | 1 | 19 | 2 | 18.0 |
| 50 | 2.5 | 47.5 | 5 | 45.0 |
| 100 | 5 | 95 | 10 | 90.0 |
| 200 | 10 | 190 | 20 | 180.0 |
| 250 | 12.5 | 237.5 | 25 | 225 |
| 300 | 15 | 285 | 30 | 270 |
| 500 | 25 | 475 | 50 | 450 |
| 1000 | 50 | 950 | 100 | 900 |
| 2000 | 100 | 1900 | 200 | 1800 |
| 3000 | 150 | 2850 | 300 | 2700 |

Directions for Use

Using the chart above, first decide on the size of the batch that you wish to make (Orange column). Now decide on the dilution (strength) of your finished product (Blue rows across the top). Let's assume you decide to make 200 Litres of **Standard** Hard Surface Cleaner at a strength of 1:19 (5%). If you look across from the number **200**, in the orange block, to the pink column under **1:19** you will see that you need **10Kg of Ecwamix HSconc-B2-CLR**. The green column to its right tells you that you need **190 Litres of water**.

1. Fill the mixing tank with the required amount of **Water** (190Lt/Kg).
2. Using your scale, weigh 10Kg of **Ecwamix HSconc-B2-CLR** into a bucket/s.
3. Place your mixer in the mixing tank and start it running at a Moderate speed .
4. Now steadily pour in the **Ecwamix HSconc-B2-CLR**. Leave the mixer running for at least 15 minutes, the mixture will look cloudy – but this is just because of air bubbles!
5. **OPTIONAL:** A High pH – Resistant Dye can be added to the final solution.
6. Switch off the mixer after 15 minutes and allow the mixture to stand for about half an hour, the bubbles will come to the top!

Congratulations, you have just manufactured your first batch of Hard Surface Cleaner!

Please advise your customers to use the following dilutions of this Product:

RECOMMENDED DILUTIONS:

A. STANDARD-Activity Dilution(1:19) of **Ecwamix HSconc B2-Clear**

Example: 1:19 (5%) means 1 part **HScon-B2-Clr.** to 19 parts Water = 20 Parts

or 1 Litre HS Cleaner to 4 Litres Water = 5 Litres
 or 2 Litre HS Cleaner to 8 Litres Water = 10 Litres
 or 100 ml HS Cleaner to 400 ml Water = 500 ml etc.

Or use 20% of however much you wish to make, the remainder is water.

Example: If you wish to make a 10 Lt Bucket at 1:4 (20%) then 20% of 10 Lt = 2 Litres
Put 2 Litres of HS Cleaner in the 10 Litre bucket and then fill it up with Water.

Use: **As is (undiluted)** – for Engine Cleaning and heavy degreasing

1:2 (33%) – for metal cleaning before painting, apply to greasy marks on laundry before washing.

1:4 (20%) – for heavily soiled floors and Commercial Kitchen cleaning

1:9 (10%) – for cleaning Bathrooms, Domestic Kitchens and lightly soiled floors



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Recommended Dilutions for End Users:

B. INDUSTRIAL-Activity Dilution of *Ecwamix HSconc-B2-Clear*

Example: 1:4 (20%) means 1 part HS Cleaner to 4 parts Water = 5 parts
or 1 Litre HS Cleaner to 4 Litres Water = 5 Litres
or 2 Litre HS Cleaner to 8 Litres Water = 10 Litres
or 100 ml HS Cleaner to 400 ml Water = 500 ml etc.

Or use 20% of however much you wish to make, the remainder is water.

Example: If you wish to make a 10 Lt Bucket at 1:4 (20%) then 20% of 10 Lt = 2 Litres
Put 2 Litres of HS Cleaner in the 10 Litre bucket and then fill it up with Water.

Use: **As is (undiluted)** – for heavy degreasing of Engines, Machinery & metals
1:3 (25%) – for heavily greased floors & work surfaces
1:5 (16.7%) – for cold soak cleaning of ferrous metals & heavily soiled Commercial Kitchens.
1:9 (10%) – for hot soak cleaning of ferrous metals & Workshop/factory floors
1:19 (5%) – for General Purpose cleaning of Kitchens and Toilets, etc.

Disclaimer / Non-warranty

This product has been subjected to limited stability tests and has been shown to perform well. However formulators should establish their own long term stability and functionality tests. The information contained herein is to our best knowledge true and accurate, but since the conditions of use are beyond our control, **Ecwamix Chemical Systems** disclaims any liability in connection with the use of this product and/or information. Warranty extends only as far as to the replacement of material shipped if not compliant with the specification as set out in the attached "Certificate of Analysis" and within the expiry period of the said product. All recommendations or suggestions are made without guarantee. It is good practice to conduct one's own safety/stability tests on all final Formulations prior to marketing.