



# KOLB

Dirt can be found on hard surfaces almost everywhere.

## Imbentin-HSC ...

... a new environmentally friendly surfactant system helps to remove it.

# Imbentin-HSC

- ... acts as an optimized blend of nonionic surfactants in formulated hard surface cleansing systems.
- complies with the European Detergent Regulation EC 648/2004.
- all ingredients are pre-registered according to REACH legislation.

In the process of cleaning hard surfaces, the individual characteristics of the surfaces to be cleaned, as well as the type and intensity of the soiling, have to be taken into consideration. Hard surfaces include, for example, metal or varnished metal surfaces. Common organic soiling stems from various oils or greases as well as dust from traffic.

Imbentin-HSC is typically used in I&E hard surface cleaning, especially vehicles and tiles.

Hard surface cleaning is made up of various steps which are predominantly controlled by the surfactants deployed, like wetting and adsorption on the hard surface, dirt removal, and drain off without any re-deposition of deposits. The product should also be low-foaming. 'All in one blend'... Imbentin-HSC meets all these requirements with to the highest standards when used in selected cleaning agent formulas. The recommended quantity for use is 5 – 10%. Due to its low water solubility, hydrotropes improve the stability in aqueous formulations. Imbentin-HSC can be formulated together with organic or inorganic acids and their salts, alkalis, builders, complexing agents, and common solvents.

## Product characteristics

- Aspect @ 25 °C: clear, yellowish, liquid
- Colour Hazen: 70
- Aspect in 0.1 g/l aqueous solution @ RT: colourless, cloudy liquid
- Cloud point (5g in 25g Butyl diglycol): 38.5 °C
- Water content: max 1.5 %
- pH value (1% in water, 25 °C): 7.5
- Hydroxyl value: approx. 395 mg KOH/g
- Viscosity @ 25 °C: approx. 100 mm<sup>2</sup>/s
- Density @ 20 °C: 0.997 g/cm<sup>3</sup>





## Cleaning agent formulations

<b>Alkaline cleaner</b>	<b>wt. %</b>
Imbentin-HSC	8.0
Trisodium phosphate (100%)	1.0
Sodium metasilikate *5 H <sub>2</sub> O (100%)	3.0
NTA (100%)	2.0
Sodium cumene sulfonate (40%)	3-5
Butyl triglycol	2-4
Water	add 100

- pH (10 % in water, 25 °C): 12.3
- Surface tension (mN/m, 1 % in water, 20 °C): 29.2
- Density (g/cm<sup>3</sup>, 20 °C): 1.05
- Viscosity (mPas, 20 °C): 4.2

<b>High pressure cleaner</b>	<b>wt. %</b>
Imbentin-HSC	10.0
TKPP (100%)	3.0
NTA (100%)	4.0
Sodium cumene sulfonate (40%)	4-6
Butyl triglycol	3-5
Water	add 100

- pH (10 % in water, 25 °C): 12.6
- Surface tension (mN/m, 1 % in water, 20 °C): 29.7
- Density (g/cm<sup>3</sup>, 20 °C): 1.05
- Viscosity (mPas, 20 °C): 5.5

<b>Acidic cleaner</b>	<b>wt. %</b>
Imbentin-HSC	8.0
Propylene glycol	5.0
Phosphoric acid (85 %)	5.0
Sodium cumene sulfonate (40 %)	5.5
Water	add 100

- pH (10 % in water, 25 °C): 2
- Surface tension (mN/m, 1 % in water, 20 °C): 28.6
- Density (g/cm<sup>3</sup>, 20 °C): 1.04
- Viscosity (mPas, 20 °C): 5.2

# Environmental assessment and classification

Imbentin-HSC and all single surfactant ingredients comply with the European Detergent Regulation EC 648/2004. Classified as Xi .

## Product handling

Imbentin-HSC should always be homogenized before use. In formulations add Imbentin-HSC after dissolving all the other ingredients in water while stirring continuously.

## Packaging

- Plastic can per 25 kg
- Steel drum per 200 kg

