



# MIDA FLOW 149 WR

Caustic CIP detergent  
for cleaning in the food industry

## DESCRIPTION & APPLICATION

**MIDA FLOW 149 WR** is a highly chelated caustic detergent specially designed for the single-stage cleaning of High Temperature Short Time (HTST) plant in the food and beverage industries.

**MIDA FLOW 149 WR** can also be used for CIP cleaning for hard water areas. The high-chelant content assists soil removal and ensures cleaning efficiency is maintained even in hard water conditions.

Regular use of product **MIDA FLOW 149 WR** removes and prevents the build-up of difficult scales such as beerstone and milkstone and keeps critical HTST plant running at maximum efficiency.

## USE INSTRUCTIONS

### Pasteuriser (HTST) Plant

Typical use concentrations and temperature range from 1 – 3% v/v at 75 - 85°C depending on soiling levels and water hardness.

*To ensure thorough single-stage cleaning performance, Klenzan recommend that at the end of a clean a minimum of 600mg/l free EDTA should remain in the KLENZFORCE solution.*

### CIP/Circulation systems

e.g.: FVs; raw and finished milk tanks; bottlewashers

Use **KLENZFORCE** at 1 - 2% v/v, depending on water hardness and caustic level required, temperature 60 - 80°C.

## PRODUCT CHARACTERISTICS

Composition	Contains sodium hydroxide, potassium hydroxide and sequestrants.
Appearance	Clear liquid
Colour	Colourless
Odour	Characteristic of the product
pH (1% v/v)	13,0 ± 0,5
Density	1,30 ± 0,05 g/cm <sup>3</sup> (20°C)
Solubility	Miscible in water in all proportions

## MATERIAL COMPACTIBILITY

When **MIDA FLOW 149 WR** is used according to the recommended use instructions, then **MIDA FLOW 149 WR** can be used on materials commonly used in the food industry as stainless steel or plastics.

Avoid contact with galvanised and chrome steel as well as soft metals such as aluminium, copper and its alloys.

Care should be taken to avoid high concentrations at high temperatures as this may darken some stainless steels, due to what is referred to as “chelate blooming”.

## ENVIRONMENT

**MIDA FLOW 149 WR** does not contain any chlorine and hence there is no risk of the formation of organic adsorbable halogens (AOX).

The surfactants of **MIDA FLOW 149 WR** comply with the European Union Directive EU648/2004 on the biodegradability of surfactants.

## SAFETY

Never mix **MIDA FLOW 149 WR** with other products. Carefully read the material safety data sheet of **MIDA FLOW 149 WR** and follow the chemical handling and disposal guidance.

## STORAGE

Store **MIDA FLOW 149 WR** in its original packaging between 5°C and 35°C. Do not expose to direct sunlight. The expiry date is 24 months from date of manufacture.

## PACKAGING

**MIDA FLOW 149 WR** can be available in CAN, DRUM and IBC.

Technical Data Sheet **MIDA FLOW 149 WR**

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