



220 I

935 mm

580 mm

240.0 kg

# **Product Information**

## www.wateradditives.com

>1000 mg/l

1199 mg O<sub>2</sub>/g

1050 mg O<sub>2</sub>/g

(OECD 302B screening test)

19% in 28 days

48-hr LC<sub>50</sub> (sludge inhibition)

COD

TOC

Biodegradability

# Belclene<sup>®</sup>200 - the Industry Standard Antiscalant for Calcium Carbonate Control in Severe Service Conditions

#### Introduction Logistics Belclene 200 antiscalant is used to inhibit calcium carbonate Irritant for supply Classification deposition in severe service industrial water systems and Corrosive for conveyance other related applications. The active ingredient of Belclene IATA class 8 UN No 3265 200 is a polymaleic acid. IMDG class 8 UN No 3265 HDPE XL-ring Mauser drum Packaging Capacity Height **Typical physical properties** Diameter Appearance Clear amber liquid Gross weight 249.5 kg Odour Slight Net weight Solids content 47-53%w/w **Regulatory approvals** Specific gravity 1.16-1.19 21 CFR 173.310 - boiler FDA(USA) pH (undiluted) <2 additives Viscosity at 25°C 12-30 cPs (10-25 cSt) 21 CRF 173.45 - beet and cane Boiling point range 100-102°C (212-214°F) sugar Freeze point range -5 to -12°C (23-10°F) 21 CFR 573 - poultry watering Solubility in: systems water Miscible G5: cooling and retort water USDA (USA) Miscible ethylene glycol G6: boilers, steamlines possible methanol Miscible food contact 50% caustic soda Readily neutralised with the G7: boilers, steamlines, cooling evolution of heat systems no food contact Does not steam distil Steam volatility A1:cleaning compounds; To avoid precipitation, pH limitations meat/poultry plants formulate below pH 2.5 or Japanese discharge regulations MITI (Japan) above pH 8.0. At in use concentrations Toxicology data Belclene 200 is stable >12500 mg/kg Acute oral LD<sub>50</sub> (rats) at any pH. Irritant (EEC guidelines) Eye irritation (rabbits) Non-irritant (EEC guidelines) Skin irritation (rabbits) Thermal stability (TGA) Toxicity to fish: Thermogravimetric analysis has shown that Belclene 200 96-hr LC<sub>50</sub> (rainbow trout) is stable up a temperature of 300°C (572°F). >100 mg/l 96-hr LC<sub>50</sub> (carp) >100 mg/l Chemical reactivity/compatibility **Ecological data** Belclene 200 is not affected by chlorine or other oxidising 580 mg/l 96-hr LC<sub>50</sub> (brown shrimp) >1000 mg/l 48-hr LC<sub>50</sub> (daphnia magna)

biocides under normal use conditions. Test for compatibility with long chain nitrogen compounds, aliphatic amine and quaternary ammonium compounds.

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