

Product Information

www.wateradditives.com

Belcor® 575 – All-organic Corrosion Inhibitor

Belcor 575 has been developed as an all-organic corrosion inhibitor for mild steel in industrial water systems.

The active ingredient of Belcor 575 is hydroxyphosphono-acetic acid.

Typical Physical Properties

Appearance	Dark brown liquid
Odour	Slight
Active ingredient content	Approx 50%
Specific gravity	1.394-1.445
pH (undiluted)	<1
pH (1%) solution	Approx 1.5
Boiling point range	101-103°C (214-217°F)
Freezing point range	-5°C (22°F)
Solubility in:	
Water	Miscible
Ethylene glycol	Miscible
Methanol	Miscible
50% caustic soda	Miscible

Chemical reactivity/compatibility

Belcor 575 is stable in well-controlled halogenated cooling systems. In common with other organic phosphorus based inhibitors, it will slowly degrade to orthophosphate in the presence of high levels of oxidising agents such as chlorine.

Thermal stability

Differential scanning calorimetry has shown that Belcor 575 is stable up to temperatures of 160°C (320°F).

Regulatory approvals

USDA (USA)	G5: cooling and retort water G7: boilers, steamlines, cooling systems – no food contact
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Logistics

Packaging	HDPE 220 XL-ring Mauser Drum Height 935 mm Diameter 580 mm Net wt 250.0 kg Gross wt 258.5 kg
Classification	Irritant for supply Corrosive for conveyance IATA Class 8 UN No 1760 IMDG Class 8 UN No 1760

Toxicology data

Acute oral LD ₅₀ (rats)	2766 mg/kg
Eye irritation	Belcor 575 will cause severe damage. The neutralised product is non-irritant
Skin irritation	It is assumed to be corrosive owing to its acidic nature
Skin sensitizing potential	It is a strong skin sensitizer based on its active ingredient
Toxicity to fish	
96-hr LC ₅₀ (rainbow trout)	380 mg/l
96-hr LC ₀ (rainbow trout)	200 mg/l
96-hr LC ₅₀ (zebra fish)	>820 mg/l

Ecological data

24-hr EC ₅₀ (daphnia)	140 mg/l
IC ₅₀ (sludge inhibition)	>100 mg/l
COD	200 mg O ₂ /g
Biodegradability	93% in 28 days OECD 302B

Patents

BWA Water Additives (BWA) owns or is the licensee of patents and patent applications, which may cover the products and/or uses described in this brochure.

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