

Belclene® 660 – Phosphonate Antiscalant and Corrosion Inhibitor

Belclene 660 is an aqueous solution of 1 – Hydroxyethylidene-1, 1-diphosphonic acid, (HEDP) (CAS Number 2809-21-4).

HEDP is widely used in industry as a sequestering agent and calcium carbonate scale inhibitor for applications in industrial water treatment, industrial cleaning, oil production and textile bleaching. In response to customer requests, BWA Water Additives has added HEDP to their product line to provide a single point of contact for polymer and phosphonate products.

The following information should be read in conjunction with the materials safety data sheet on this product.

Typical Properties

Appearance	Clear to yellow
% active	60
pH	<2
Chloride (%)	<1
Iron (ppm as Fe)	<35
Phosphorous acid (%)	<4.0
Viscosity (25°C cST)	38
Specific gravity (20°C)	1.45

Logistics

Belclene 660 is supplied in blue polyethylene drums containing 290 kg /650 lb, also in 1350 kg IBC. Belclene 660 is classified as irritant for supply and corrosive for conveyance.

Quality Control

All products are subject to rigorous quality control testing before shipment. Certificates of analysis are provided to confirm product quality. Specific test procedures are available on request.

Toxicology data

Acute Oral toxicity (LD ₅₀): species rat	>2000 mg/kg
Eye irritation: species rabbit	Irritant
Skin irritation: species rabbit	Non-irritant
Other information	Not a skin sensitizer

Ecological data

96 hour LC ₅₀	Rainbow trout	>300 mg/l
48 hour EC ₅₀	Daphnia	>500 mg/l
Biodegradation	Zahn-Wellens	33% degradation in 28 days

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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