

## Product Specification Sheet

### CC 70

## Choline chloride 70% on vegetable carrier

<b>Grade</b>	Nutritional Additive; functional group vitamins, pro-vitamins and chemically well-defined substances having similar effect Active substance 70 wt.% Choline Chloride (3a890)		
<b>Quality</b> (Declared on CoA)	<b>Determination</b>	<b>Specification</b>	<b>Reference</b>
	Choline chloride	70±2 % w/w	SAM 269.22
	Moisture	2.5 % w/w max	SAM 280.17
	Particle size > 2.0 mm	2 % max	SAM 721.06
	Particle size > 0.850 mm	35 % max	SAM 721.06
<b>Appearance</b>	Free-flowing tan colored powder with faint characteristic odor		
<b>Product characteristics</b>	<b>Typical</b>	<b>Reference</b>	
	Trimethylamine	400 ppm w/w max	SAM 839.04
	Apparent bulk density	600-750 Kg/m <sup>3</sup>	SAM 243.06
	Packed bulk density	650-850 Kg/m <sup>3</sup>	SAM 720.06
	Ion Chromatographic method (SAM 839.05) for testing choline chloride content is available on request		
<b>Retest date</b>	24 months from date of manufacture (in original packaging and protected from excessive heat)		
<b>Formula</b>	C <sub>5</sub> H <sub>14</sub> NOCl		
<b>Synonyms</b>	(2-hydroxyethyl) trimethylammonium chloride  CAS N°: <b>67-48-1</b>		
<b>Physical Properties</b>	See Safety Information Card		
<b>Recommended storage conditions</b>	Protect from excessive heat. Keep the containers tightly closed, the product is hygroscopic		
<b>Composition</b>	Feed additive preparation: <ul style="list-style-type: none"><li>- Choline chloride (3a890)</li><li>- Vegetable carrier</li><li>- Salts of fatty acid</li></ul>		

# BALCHEM ITALIA

## Product Specification Sheet

### Packaging

#### Polyethylene bag

Balchem Italia product code: 5405091

25 kg net with multilingual labeling.

Standard pallet configuration: 50 bags on a wooden HT pallet (IPPC-FAO), size 1000 x 1200 mm with PE shrink pallet cover.

Standard pallet dimensions:	Net weight:	1250 kg
	Gross weight:	1270 kg
	Pallet size (w x l x h):	1050 x 1250 x 1450 mm

#### Polypropylene woven FIBC

Balchem Italia product code: 5408451

1100 kg net with multilingual labeling.

Standard pallet configuration: 1 big bag on a wooden "CP 9" HT pallet (IPPC-FAO), size 1140 x 1140 mm, with PE stretch film.

Standard dimensions:	Net weight:	1100 kg
	Gross weight:	1120 kg
	Pallet size (w x l x h):	1140 x 1140 x 1500 mm

**Bulk** in silo trucks (25 tons)

Balchem Italia product code: 5405089

**Loose bags** (25 Kg each) in 20 ft box containers (21 tons)

Balchem Italia product code: 5408376

### Health and safety

Breathing, eye and skin protection shall be used during handling

Choline Chloride is not classified according to the CLP Regulation (EC) N° 1272/2008

See our Safety Data Sheet

### Regulatory info

Choline chloride is authorized as Feed Additive by Regulation (EU) No 795/2013 from 21 August 2013 and included in the European Union Register of Feed additives in the category "Nutritional Additives" with identification number 3a890

Choline chloride 70% -veg is a feed additive preparation under the Regulation (EU) N° 2015/327

Balchem Italia is registered for production of choline chloride according to regulation 183/2005/EC (registration number **αITM00001 NO**)

### Directions for use (other provisions (EU) N° 795/2013)

All animal species

Choline chloride may be used via water for drinking

The labelling of feed for poultry and pigs containing choline chloride should indicate in the instructions of use: 'simultaneous use with water for drinking in which choline chloride has been added should be avoided'

Recommended not to exceed supplemental levels of 1000 mg of choline chloride/kg of complete feed for poultry and pigs

### Contacts

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### Certifications

Feed safety ISO 22000:2005 and FAMI-QS Management System

Quality ISO 9001:2008

Environmental ISO 14001:2004

### Note

These conditions can be subject to amendments

### Version

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