

**PuraChol™**  
 Choline Chloride

**75% Choline chloride, aqueous solution**

Effective date: 27 January 2021

Revision 2

ANH

Language EN

**MANUFACTURER/SUPPLIER**

Balchem Corporation – 52 Sunrise Park Road – New Hampton, NY 10958 USA – Tel: +1 845-326-5600  
 Balchem Italia – Via del Porto snc – Marano Ticino (NO) Italy – Tel: +39 0321-9791  
**Emergency phone number: CHEMTREC 800-4249300 (USA) - +1 7035273887 (International)**

**SUBSTANCE IDENTIFICATION**

<b>CAS number:</b> 67-48-1 <b>EC-number:</b> 200-655-4	<b>Formula:</b> C <sub>5</sub> H <sub>14</sub> NO.Cl <b>Molecular weight:</b> 139.6 <b>Appearance:</b> Light yellow liquid	<b>Relative Density:</b> 1.10 (20 °C) <b>Dynamic Viscosity:</b> 26.20 (26 °C) <b>Boiling point:</b> > 125 °C <b>pH:</b> 5-8 (10 g/l, 20 °C)	<b>Vapor pressure:</b> 22.87 hPa <b>Ignition temperature:</b> 330 °C <b>Partition coefficient:</b> logPow -3,37 (25 °C n-octanol/water)
<b>Industrial Use:</b> <b>Feed additive Use:</b>	REACH registration number: 01-2119974137-31-0001 Nutritional Additive; functional group vitamins, pro-vitamins and chemically well-defined substances having similar effect; Choline chloride (3a890)		

**HAZARD IDENTIFICATION**

The substance is not classified according to the CLP regulation (Regulation (EC) N° 1272/2008).  
 The substance is not hazardous according to the GHS classification.

Type of hazard /exposure	ACUTE HAZARD / SYMPTOMS	PREVENTION	FIRST AID / FIRE-FIGHTING
<b>FIRE</b>	Formation of toxic gases is possible during heating or in case of fire.	Fire fighting: Wear self-contained respiratory protective device.	CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
<b>EXPLOSION</b>	--	--	--
<b>EXPOSURE</b>			Take affected persons out of danger area and lay down.
<b>INHALATION</b>		Ensure adequate ventilation.	Supply fresh air; consult doctor in case of complaints.
<b>SKIN</b>	Generally the product does not irritate the skin.	Wear protective clothing (Rubber/PVC gloves)	Immediately wash with water and soap and rinse thoroughly.
<b>EYES</b>		Safety glasses	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>INGESTION</b>		Do not eat, drink or smoke when using this product. Keep away from foodstuffs, beverages and feed.	Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

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**ACCIDENTAL RELEASE MEASURES**

<b>Environmental precautions:</b>	Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
<b>Methods and material for containment and cleaning up:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
<b>HANDLING, DISPOSAL, STORAGE AND TRANSPORT</b>	
<b>Precautions for safe handling:</b>	No special precautions are necessary if used correctly.
<b>Disposal considerations:</b>	Do not allow product to reach sewage systems, disposal must be made according to official regulations
<b>Storage:</b>	Store only in the original receptacle. Store away from oxidizing agents Protect from frost
<b>Transport information</b>	<b>UN-Number:</b> Void <b>Transport hazard class:</b> Void <b>Packaging group:</b> Void

**OTHER INFORMATION**

<b>Toxicological information</b>	<b>LD50</b> oral 3500 mg/kg (Rat) <b>NOAEL</b> (repeated dose) 1200 mg/kg (Rat) – (reproduction) 78 mg/kg (Rat) <b>Irritant/Sensitization</b> No irritating effect or sensitizing effects known.
<b>Ecological information</b>	<b>EC50</b> (static) 132.8 mg/l (bacteria) - (48h static) >500 mg/l (Daphnia) <b>ErC50</b> (72h static) > 500 mg/l (Algae) <b>LC50</b> (96h static) > 10000 mg/l (Fish) <b>NOEC</b> (21d) 30.2 mg/l (Daphnia) <b>Persistence and degradability:</b> Readily biodegradable > 75% @ 5 days <b>Bioaccumulative potential:</b> Does not accumulate in organisms BCF 3.16 l/kg ww <b>Mobility in soil:</b> logKoc: 0.1576 @ 20 °C <b>Water hazard class 1</b> (German regulation – self assessment) slightly hazardous for water <b>Results of PBT and vPvB assessment:</b> no PBT – no vPvB
<b>Issuing department</b>	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Balchem corporation – <a href="mailto:sds@balchem.com">sds@balchem.com</a>