

PuraChol™
 Choline Chloride

Choline Chloride on vegetable carrier – dry
(60% - 70% - 75% - 80%)

Effective date: 27 January 2021

Revision 2

ANH

Language EN

MANUFACTURER/SUPPLIER

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Emergency phone number: CHEMTREC 800-4249300 (USA) - +1 7035273887 (International)**SUBSTANCE IDENTIFICATION**

CAS number: 67-48-1 EC-number: 200-655-4	Formula: C ₅ H ₁₄ NO.Cl Molecular weight: 139.6	Appearance: pale yellow / tan to brown powder	Bulk Density: 600-750 kg/m ³ pH: 4.5-7.5 (25% wt. in water)
Dust explosion properties	The product in the original composition is not expected to be a combustible dust hazard. Dust explosion properties have not been fully evaluated. One sample of 70% choline chloride on vegetable carrier was treated to obtain a powder with 0.6 wt% moisture and particle size < 70 micron diameter had the following properties:		
	Minimum ignition temperature (MIT) 300 °C MIE = 30 mJ P_{max} = 6.8 bar, K_{st} =245 bar-m/s ST=2 (for dust cloud composed of particle 70 micron or less under high turbulence). Layer Ignition Test (LIT): No ignition up to 400 °C of 5 mm dust layer.	Charge Relaxation Time <0.01 seconds yielding classification as quick which implies rapid elimination of charge buildup when grounded / earthed, Powder Volume Resistivity = 2.6 x 10 ⁴ classified as low implying grounding/earthing is likely effective preventing charge buildup.	
Industrial Use: Feed additive Use:	Not for industrial use Nutritional Additive; functional group vitamins, pro-vitamins and chemically well-defined substances having similar effect; Choline chloride (3a890); Feed additive preparation		

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
FIRE	Formation of toxic gases is possible during heating or in case of fire.	Fire fighting: Wear self-contained respiratory protective device.	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
EXPLOSION	--	--	--
EXPOSURE			Take affected persons out of danger area and lay down.
INHALATION	Breathing dust from any source may cause irritation.	Ensure adequate ventilation.	Supply fresh air; consult doctor in case of complaints.
SKIN	Generally the product does not irritate the skin.	Wear protective clothing (Rubber/PVC gloves)	Immediately wash with water and soap and rinse thoroughly.
EYES		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.

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INGESTION

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.

ACCIDENTAL RELEASE MEASURES**Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Sweep material and place in a disposal container.
Dispose of the material collected according to regulations.

HANDLING, DISPOSAL, STORAGE AND TRANSPORT**Precautions for safe handling:**

No special precautions are necessary if used correctly.

Disposal considerations:

Do not allow product to reach sewage systems, disposal must be made according to official regulations

Storage:

Store only in the original receptacle.
Store away from oxidizing agents
Protect from frost

Transport information

UN-Number: Void
Transport hazard class: Void
Packaging group: Void

OTHER INFORMATION**Toxicological information**

LD50 oral 3500 mg/kg (Rat)
NOAEL (repeated dose) 1200 mg/kg (Rat) – (reproduction) 78 mg/kg (Rat)
Irritant/Sensitization No irritating effect or sensitizing effects known.

Ecological information

EC50 (static) 132.8 mg/l (bacteria) - (48h static) >500 mg/l (Daphnia)
ErC50 (72h static) > 500 mg/l (Algae)
LC50 (96h static) > 10000 mg/l (Fish)
NOEC (21d) 30.2 mg/l (Daphnia)
Persistence and degradability: Readily biodegradable > 75% @ 5 days
Bioaccumulative potential: Does not accumulate in organisms BCF 3.16 l/kg ww
Mobility in soil: logKoc: 0.1576 @ 20 °C
Water hazard class 1 (German regulation – self assessment) slightly hazardous for water
Results of PBT and vPvB assessment: no PBT – no vPvB

Issuing department

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.
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