

# Monocalcium Phosphate monohydrate Feed Grade

APPLICATION DATA SHEET

**MCP** is an additive to animal feed, which contains calcium and phosphorus from inorganic compounds, namely orthophosphorus acid and finely ground calcium carbonate. It is used by combining it with the feed the feed mixture and premix as instructed by the producer of the animal feed.

## MONOCALCIUM PHOSPHATE MONOHYDRATE FEED GRADE

Chemical name: **Monocalcium Phosphate** CAS/EINECS number: **10031-30-8/231-837-1**  
Chemical formula: **Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O** (234,05 g/mol) Custom code (TARIC): **28352600**

## SPECIFICATIONS

Product code	<b>1514</b>
Appearance	<b>Light grey</b>
Phosphorus (P) Total, min.	<b>min. 22,3 %</b>
Relative phosphorus solubility in 2% Citric acid, min.	<b>min. 95 %</b>
Relative water-soluble phosphorus, min.	<b>min. 75 %</b>
Calcium	<b>min. 15 %</b>
Fluoride	<b>max. 2000 ppm</b>
Arsenic	<b>max. 10 ppm</b>
Lead	<b>max. 15 ppm</b>
Cadmium	<b>max. 10 ppm</b>
Mercury	<b>max. 0,1 ppm</b>
pH (1 % solution)	<b>3,5 – 4,5</b>
Particle size	<b>0,2 – 2,0 mm ... min. 80 % ≤ 0,2 mm ... max. 20 %</b>
Packing	<ul style="list-style-type: none"><li>▶ PP 1000 kg big-bags</li><li>▶ 50 kg bags</li><li>▶ silo-truck</li></ul>

Note: All of the above results are based on the analysis of a composite sample. Individual samples may fall outside the specified typical.



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PHOTO



PACKING

Packaging	BB dimensions	Conditions of loading
in BB and without pallets or silos (25 tons).	110x100x130 - 1000 kg without discharge spout/loop bag	<ul style="list-style-type: none"><li>▶ On pallets</li><li>▶ Without pallets</li></ul>



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## APPLICATION

Store packaged in covered dry and clean storehouses protecting the product against moisturizing, atmospheric precipitations and ground waters, separately from mineral fertilizers and toxic chemicals! Storage temperature is unlimited.

Spillages and empty packaging are collected and disposed in designated areas.

Monocalcium phosphate is fed in mixture with concentrated feedstuffs (concentrates), grain wastes, silage, bagasse, herbage, crushed pipfeeds, wet mush, as well as used for compound feedstuffs enrichment. Extra nutrition should be introduced to ration step by step during 5 - 10 days, starting from low doses.

The daily dosage is determined based on the availability of phosphorus and calcium in the ration of animals and poultry.

## NORMS OF FEEDING PER ANIMAL PER DAY, IN GRAMS

Milking COWS	35 - 100
Nonmilking cows	25 - 70
Servicing bulls	30 - 75
Workhorses, nursing mares, sows	30 - 60
Young stock of bovine cattle younger than 1 year	10 - 30
Young stock of bovine cattle older than 1 year	25 - 50
Yelts, colts	8 - 15
Ewes	2 - 5
Adult hens, Turkey-hens	1,5 - 2,5
Young sheep (gimbers)	1,5 - 3
Lambs	0,8 - 1

**Excess of daily feeding norm is not recommended.**

Introduction of monocalcium phosphate into feed is performed in feed processing rooms of households or in feedmilling establishments. **Overdosages** may cause chronic poisonings. Magnesium carbonate and potassium chloride are used as antidotes; level of magnesium in rations is brought to 0,35-0,5% and potassium - to 1,5%. Compatible with other feed additives and medical products. No contradictions are determined to use the product. Livestock product after use of feed additive can be used without limitation.

By level of effect on human organism is referred to 4 class of hazard (marginally hazardous substances), threshold limit value of monocalcium phosphate dust in workplace area is 10 mg/m<sup>3</sup> according to GN 2.2.5.1313. Fire and explosion proof.



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