

## PROPERTIES

Mangan-ion is a liquid, acidic formulation of concentrated manganese sulfate monohydrate, in an ionic  $Mn^{++}$  form. Thanks to its innovative technology manganese ions remain stable and bioactive until their full absorption by plant tissues.

The main feature of Mangan-ion is its good penetration ability after being sprayed on foliage. Mangan-ion increases the manganese content in leaves and plant tissues significantly and quickly. Moreover, it does not stain treated plants and organs.

Mangan-ion prevents or controls manganese deficiency of plants. This problem occurs frequently in alkaline and calcareous soils with neutral or high pH ( $pH > 7$ ), in calcareous soils which have high organic and turfy content as well as in soils which derive from parent

rock poor in manganese. The typical symptomatology is indistinct interveinal chlorosis of leaves which becomes visible initially on young leaves. As the phenomenon progresses, chlorotic tissue becomes brown and spots appear scattered on leaves.

Manganese is part of enzymes which regulate the production of chlorophyll. In addition it is a structural unit of chloroplasts. Its deficiency results in reduced plant growth and low crop yield. Mangan-ion delivers manganese quickly and effectively, thus enabling production of chlorophyll, cure of chlorosis and intensification of photosynthesis.

If symptoms of deficiency have already appeared, new leaves which will be formed after foliar application of Mangan-ion will not be chlorotic. Also Mangan-ion will correct chlorosis on old leaves.

## METHOD AND TIMING OF APPLICATION, CROPS

Mangan-ion is applied on all crops such as vegetables, strawberries, potatoes, legumes, fruit-trees, nut-trees, citrus, kiwis, vines, olives, avocados, arable crops, ornamental plants, grasses (turf), preventatively or curatively mainly during vegetative growth.

It creates homogeneous (without agglomerates) and stable aqueous solution. It is applied by foliar application up to runoff or with fertigation.

## DOSE

Foliar applications: 50-100ml Mangan-ion per 100 liters of water, depending on the needs of each crop.

Fertigation: 1-2L per ha.

Repeated applications may be required depending on crop and soil conditions.

Overdose must be avoided.

## MIXING INSTRUCTIONS

It can be combined / mixed with the majority of agrochemicals, but not with fosetyl-Al and chloryrifos.

## STORAGE INSTRUCTIONS

Mangan-ion should be stored in its sealed package at temperatures above  $-4^{\circ}C$  in a closed warehouse, protected from extreme temperatures, fire and moisture.

# Mangan-ion<sup>®</sup>

Ionic Concentrated Manganese



FOR PREVENTING - CONTROLLING MANGANESE DEFICIENCY

1L

Manganese fertilizer

GUARANTEED ANALYSIS (w/v):

Ionic Manganese ( $Mn^{++}$ ) ..... 9.1%  
as manganese sulfate monohydrate

Sulphur (S): ..... 5.3%

IONIC MANGANESE  
 $MnSO_4 \cdot H_2O$

## CANADIAN TECHNOLOGY

Manufactured in Malaysia by ENVIRO SAFE SOLUTIONS Sdn Bhd.

ENVIRO SAFE SOLUTIONS Sdn Bhd guarantees the quality of the product, but is not responsible for the consequences of inappropriate use. So, the label must be read carefully before the use of the product.

## HAZARD STATEMENTS:

H314: Causes severe skin burns and eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

P310: Immediately call a POISON CENTER / doctor.

Poison Center Phone Number: +30 210-7793777

It contains MANGANESE(II) SULFATE MONOHYDRATE

## PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves / clothing and eye / face protection.

P304+P340: IF INHALED: remove person to fresh air and keep comfortable for breathing.



CAUSES SEVERE SKIN BURN AND EYE DAMAGE



MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE

EC Fertilizer

Representative in EU: Agrocure

www.agrocure.com