

## Application-Specific Advantages of HM 1

HM 1 breaks new grounds in wood preservation: by offering unique properties regarding biological and technical aspects, which have been developed and tested for more than 15 years by MASID's research department.

1. HM 1 emits no toxic vapours or any other substances, and therefore its application can even take place safely in closed rooms.
2. Because of its environmental friendliness HM 1 is especially eligible for allergic and asthmatic people as well as for children with pseudo croup, toddlers and babies.
3. Protective measurements are not necessary, be it processing, application or disposal.
4. Used tools can just be rinsed with water.
5. HM 1 is easy to store and does not need to be protected from frost or heat.
6. HM 1 also inhibits fire-hazard (until penetration depth)
7. HM 1 is diffusible and allows for the necessary moisture balance.
8. HM 1 does not flake off and can also be used for aftercare, if desired, without prior abrasion.
9. HM 1 strengthens and binds the affected wood.
10. HM 1 is available as water-dilutable concentrate.
11. Special emphasis needs to be put on the broad wood preserving abilities of HM 1 and its manifold application possibilities. ( wood preservation against parasites and fungi, fire inhibition, UV-protection, wood refining, restoration )
12. We point out that HM 1 is also specifically eligible for the rehabilitation of old buildings and the preservation of historic monuments, because it consolidates and binds affected wood ( See recommendation statement Castle Eltz, expertise Fraunhofer Institute)
13. Furthermore HM 1 can be used as basic impregnation for exterior areas as well if this treatment is then followed by an application of a water-repellent coating.
14. It needs to be stressed that – because of the special active principle – the effectiveness of HM 1 does not decrease but increase in the course of time.
15. Pre-treatment and fixation are unnecessary which results in enormous savings of material and time.
16. HM 1 can be easily coloured with –preferably- non-toxic pigments.
17. A really important aspect is the unproblematic and easy application of this new formula which also entails the benefit of considerable cost saving.
18. Because HM 1 is non-toxic, disposal is no problem.
19. HM 1 has the ability to reveal areas that are infested with colour fungi such as blewit. This infestation can be removed through abrasion and repeated treatment with HM 1 .  
Reoccurrence of infestation is prevented.

**HM 1 is presently the only wood preserver worldwide with those properties.**



**HM1 contributes to keeping the earth habitable in the future.**

The given indication and information about the usage and characteristics of this product is given to the best of our knowledge based on our studies and experience. Since it is not possible to go into the various details and since we have no influence on the actual and practical usage of the product, these are non-committal statements.

**MASID - Environment Sustaining Products**

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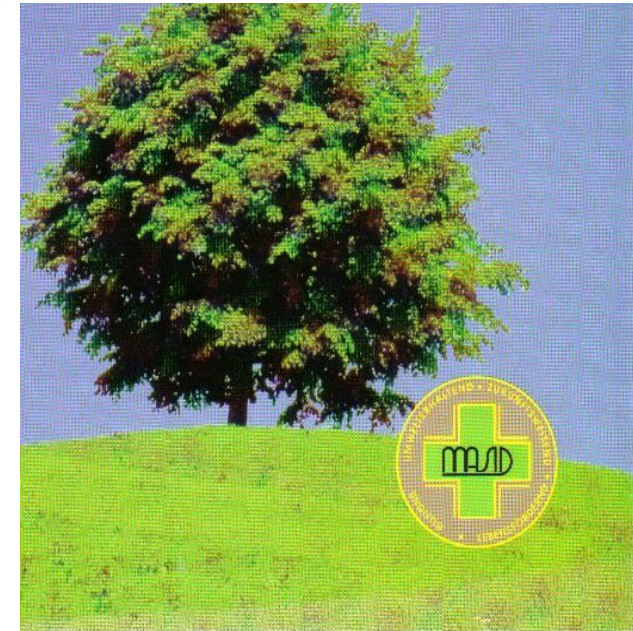
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# HM1

## Innovations from Nature

### Non toxic wood preservation

**Preventive and effective preservation for all indoor wood employing an advanced active principle**



## Life – supporting Development



# HM1

## Non-toxic wood preservation for all indoor wood , with advanced active principle

- > preventive + effective
- > pollution-free
- > for unsound wood
- > bio-degradable
- > suitable for asthmatics
- > colour-neutral
- > applicable in unventilated rooms
- > for the future habitability of the earth
- > for the future of the children
- > for your health

## Intensive research for future-oriented products led to a new wood-preserving thought:

Based on the philosophy that acknowledges the interdependence and interconnectedness of all life, MASID, the company that applied environmental research, found ways to achieve the replacement of products that are toxic and hazardous to nature and humans, with products that are environment-sustaining and life-supporting.

“Consequently a new wood preserving approach was researched and developed. Untreated wood is dead organic material which nature utilizes sensibly – certain insects and fungi consume it readily. They transform their excretions into valuable resources, which serve as an essential nutritional basis for plants. The plants in turn are of existential significance for humans and animals, because of the important role they play in nutrition and because the habitability of the earth depends on them.

Unfortunately insects, parasites and fungi cannot differentiate between the wood they find in nature and the wood that we wish to preserve for our own use. So we at MASID aimed at developing a wood preservative that allows insects and fungi their survival while it ensures that the woods meant for utilization won't be affected by parasite- and fungi-infestation.

With the development of HM 1 we have come up with a product which makes it possible that the wood treated with it is no longer recognizable as such for parasites and fungi. (see active principle). As a consequence there is just no need for using toxins and so the valuable parasites as well as the wood in use are preserved.”

### Biological Properties

1. HM 1 is 100% bio-degradable, therefore no environmental pollution can occur, neither in application nor in disposal !
2. HM 1 is food-safe, therefore even direct contact with foods bears no risk of contamination!
3. HM 1 is safe for bees, therefore very sensitive insects such as bees are not affected!
4. HM 1 is pollutant-free, containing no hazardous substances

**Therefore HM 1 can also be used in preserved areas and nature sanctuaries!**

**In the test of the Technical University Darmstadt it was verified that HM 1 does not contain chlorinated hydrocarbons and organic solvent.**

### Note:

A possible appearing of a mould layer on the product's surface – if maybe the container was being left open for some time is not a sign of inferior quality but only an indication for its purity, containing no preservatives The mould layer can be easily removed from the surface and the product remains applicable.

# HM1 non-toxic wood preservative

- preventive and effective wood preservative for all kinds of indoor wood, with advanced active principle

## Product Information

### I. Product type

Natural, non-toxic, water-dilutable wood preservative based on regrowing resources and a worldwide patent formula.

### II. Ingredients

The product contains plant and mineral components that are alone and in combination completely non-toxic: magnesium oxide, potassium palmite, silica, potassium chloride, fatty acid, water.

### III. Purpose

1. Preventive and effective wood protection
2. Wood surface finishing (the natural wood texture remains)
3. Restoration (strengthening) of old, damaged wood
4. UV-protection, no greying, no fading
- 5..Care- and cleansing-product

### IV. Advanced Active Principle

HM 1 works through a crystallization process. Thus the treated wood is made unrecognizable for the parasites as their source of food. Likewise the nutrients for insects/parasites that are already inside the wood become unrecognizable. Hence, the living conditions for fungi are changed in a way that growth is prevented.

**Therefore the use of pesticides, fungicides and other toxins in HM1 can be avoided.**

### V. Areas of Application

HM 1 is unexceptionally applicable for all different kind of indoor wood. For outdoor use an additional water-repellent coating is necessary.

### VI. Application

#### a. The making of the final product::

HM 1-concentrate is ten-fold concentrated. Therefore it needs to be diluted with 1:10 ,with water, for example 10 l HM 1 concentrate diluted with water result l 100 l HM1 final product, - stir well. 1 l final product is sufficient for about 5 m<sup>2</sup> with double application. The minimum application quantity is 200 ml / m<sup>2</sup> Stir well even if you are just using a small portion of the product!

#### b. Usage

Painting, dipping spraying or boiler pressure. After drying, repeat treatment once. Drying is complete when the water has evaporated. In case of severely damaged wood (old roof beams and old furniture) the treatment of restoration and strengthening of the wood can be repeated several times. HM 1 does not colour the wood but gives it a fine silky surface.

**-Please test in an appropriate area -**

### Indication for Application

Infested wood must be treated in a way that HM 1 reaches all infested areas. HM 1 penetrates the food ducts so that the parasites cannot recognize the nutrients in the wood caused by the crystallization process. In case of serious infestation the usual measurements such as food duct impregnation, apply. These measurements should be done by an expert. To bring HM 1 into its full effect, it must be applied on untreated wood. Dirt and water-repellent substances must be removed from the surface before treatment with HM 1. Like all salt-containing and/or water-diluted substances HM 1 should not be kept or carried in containers made of iron, carbon steel, or of other materials that are susceptible to corrosion! If there are iron mountings or the like attached to the wood which are susceptible to corrosion, those must be removed prior to treatment with HM 1.. Furthermore, like all salt-containing substances, HM 1 is not to be used with tools made of iron, carbon steel and other materials that are susceptible to corrosion.

**ATTENTION:** Bare metal parts should be protected! If accidentally HM 1 gets onto metals it should be washed off with water immediately.

Coagulations can occur but has no influence on the product's effectiveness.