

**Product Data Sheet:  
BITTER BARK – Plant protection product**

**12.09.2023**

<p><b>Name of the product:</b></p>	<p align="center"><b>BITTER BARK</b> Permission no. R-136/2023 Repellent in the form of a ready-to-use paste (PA) that protects against biting and spalling.</p>
<p><b>COMPOSITION/INFORMATION ON INGREDIENTS</b></p>	<p>Active substance: quartz sand – (a compound from the group of inorganic oxides) 251 g/kg (25.1%)</p> <p>EUH401 – In order to avoid risks to human health and the environment, please follow the instructions for use.</p> <p>P280 – Wear protective gloves.</p>
<p><b>Method of action:</b></p>	<p>BITTER BARK is a repellent in the form of a paste for direct use intended for the protection of seedlings and trees in forestry, ornamental trees, Christmas trees grown on plantations, pear, plum, sweet cherry, peach, apricot, hazel and walnut against browsing and stripping by game animals, as well as for the protection of forest nursery plants, regeneration plants, afforestation and seed plantations of forest trees, ornamental shrubs, common quince, gooseberries, chokeberries, highbush blueberries and vines against browsing.</p> <p>Biting and damaging trees by animals is a serious problem in proper forest management. Trees are damaged both by biting- this applies to 2-5-year-old plants, and by eating the bark of older trees - this applies to 7-15-year-old plants.</p> <p><b>Protection of trees against biting and stripping by deers</b></p> <p>Damage to seedlings by deer, elk, fallow deer and roe deer most often happens as a result of biting the apical part of the main shoot (the so-called guide). The trees then grow unevenly, the structure of the future tree's crown is disturbed or the seedling dies. In addition to protecting the shoots, it is also important to protect them against stripping (bark biting). In order to counteract the above, the preparation is applied to the entire surface of the tree trunk (trunk) within the reach of the animal's head at the height at which they are most often staked (0.4 - 1.8 m).</p>

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	<p><b>Protection of tree seedlings against hares and rodents</b></p> <p>Hares usually bite through the shoots of young trees and seedlings at the height they can reach, i.e. a height of approx. 100 cm In a similar way, trees are damaged by, for example, beavers or water voles. The bark around the main shoot and the root collar is also damaged.</p> <p>The widespread occurrence of deer and hares, wild rabbits and rodents, which damage the most important parts of the trees, means that in order to prevent the destruction of trees and the need for new seedlings, it is necessary to protect especially young trees, especially in winter.</p>
<p><b>Product's properties/advantages</b></p>	<ul style="list-style-type: none"> <li>• Easy application especially on young trees' and plants' shoots</li> <li>• exceptionally effective protection of trees against animals;</li> <li>• natural composition that does not pose a threat to protected flora or animals;</li> <li>• resistance to washing after previous drying;</li> <li>• Long time of protection</li> <li>• Practical dedicated package</li> </ul>
<p><b>Use of preparation:</b></p>	<p><b><u>Use in forests</u></b></p> <p><b>Preventing biting the trees by deers and hares (both coniferous and deciduous)</b> Maximum doses for one use: 5 kg/1000 pcs of 2-5 year-old trees. Maximum doses for one use: 2-5 kg/1000 pcs of 2-5 year-old trees. The recommended dose depends on size and species of protected trees and seedlings.</p> <p><b>Preventing biting the trees by deers and hares (both coniferous and deciduous)</b> Maximum doses for one use: 13/1000 of 2-5 year-old trees. Maximum doses for one use: 10-13 kg/1000 pcs of 2-5 year-old trees The recommended dose depends on size and species of protected trees and seedlings. Maximum amount of use in growing season: 1.</p> <p><b><u>Use in plantations and small areas</u></b></p> <p><b>Preventing biting of the top shoots of seedlings with leaves and buds by deers, hares, squirrels and beavers.</b></p>

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	<p>Maximum doses for one use: 5 kg/1000 pcs of 2-5 year-old trees Maximum doses for one use: 2-5 kg/1000 pcs of 2-5 year-old trees and bushes The recommended dose depends on size and species of protected trees and seedlings. Maximum amount of use in growing season: 1.</p>
<p><b>Precautions and use recommendations</b></p>	<p>Apply the preparation in autumn and winter (in the case of deciduous tree seedlings - after the leaves have fallen), when animals begin to damage the seedlings. The product can be applied using a paint brush with an elongated handle or a rubber glove. Spread the preparation from the lower part upwards, optimally on the entire surface of the trunk and branches up to a height of 0.5-1.8 m, especially on the tops of the shoots, so as to prevent animals from biting and choking.</p> <p>Seedlings and young trees should be lubricated evenly with a thin layer of the preparation:</p> <ul style="list-style-type: none"> <li>• coniferous trees - main shoot from the current tree growth,</li> <li>• deciduous trees - the entire main shoot, if its thickness does not exceed 2 cm.</li> </ul> <p>The preparation should be used at temperatures above 0 degrees Celsius, on rainless days.</p>
<p><b>PREPARATION USE:</b></p>	<p>BITTER BARK is a product in the form of a ready-to-use paste. Before each use, the preparation should be mixed well by vigorously shaking the foil packaging. Then open the package and transfer the contents to a bucket or other handy container. In order to improve the application properties, it is allowed to dilute the preparation with water in the amount of 200 ml per 5 kg of product - this applies to excessive density of the product resulting from long storage period.</p>
<p><b>Conditions for safe use of the product:</b></p>	<p><b><u>Precautions for people using the product:</u></b> Do not eat, drink or smoke when using the product. Use protective gloves and work clothes during the procedure. Use protective gloves and work clothes during the procedure. Wash contaminated clothing before reuse.</p> <p><b><u>Environmental precautions:</u></b></p>

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	<p>Do not pollute water with plant protection products or their packaging. Do not wash the equipment near surface water. Avoid water pollution through drainage ditches from farms and roads.</p> <p><b><u>The period from the application of the preparation to the day when people and animals may enter the area where the preparation was applied (prevention period):</u></b> Do not enter until the agent has dried on the plant surface.</p> <p><b><u>The period from the last use of the preparation to the date of harvesting the crop (withdrawal period):</u></b> not applicable</p> <p><b><u>The period from the last application of the preparation to plants intended for feed to the date on which animals may be fed with these plants (withdrawal period for feed):</u></b> not applicable</p> <p><b><u>The period from the last application of the preparation to the plants until the day when the subsequent crops can be sown or planted:</u></b> not applicable</p>
<p><b>First aid</b></p>	<p>Use symptomatic treatment, no antidote. In case of skin contact, wash immediately and thoroughly with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention</p>
<p><b>Conditions for storage and safe disposal of plant protection products and packaging</b></p>	<p>Store plant protection product:</p> <ul style="list-style-type: none"> <li>- in places or facilities where appropriate security solutions have been used against environmental contamination and access by third parties,</li> <li>- in original packaging, in a way that prevents contact with food, drinks or forage,</li> <li>- at a temperature of 0°C - 30°C; if the storage temperature was close to 0°C, move the product to a room with a higher temperature and wait at least 4 hours before use.</li> </ul> <p>It is prohibited to use empty plant protection product packaging for other purposes. Send any unused product to an entity authorized to collect hazardous waste.</p>

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	<p>It is recommended to return empty packaging to the seller of plant protection products or treat it as municipal waste. If you have any doubts regarding the handling of packaging, consult the plant protection product seller.</p>
<p><b>Transport:</b></p>	<p>It does not require special means of transport. The product is not subject to ADR regulations Transport in covered means of transport. Secure transport packaging and load units against movement during transport.</p>
<p><b>Manufacturing plant/Producer:</b></p>	<p>Przedsiębiorstwo Produkcyjno-Handlowe [Trade-Production Enterprise] „ADW” Sp. z o.o. [Limited Liability Company] ul. Zbożowa 2, 43-175 Wiry tel. 32 218 71 85 fax 32 323 00 85</p>
<p><b>Available packages:</b></p>	<ul style="list-style-type: none"> <li>• The Product is available in the following packages: 5 kg, 3x5 kg.</li> </ul>
<p><b>Period of validity:</b></p>	<ul style="list-style-type: none"> <li>• 2 years from the date of manufacture.</li> </ul>