

<b>Product Description</b>	A single component, water-based cleaner, 100% biologically degradable and free of toxins. HOCNF certified. Non-flammable.
<b>Area of use</b>	Valhall Gel is developed to remove contamination on gangways, tiles, fiberglass and coated surfaces. Removes light to medium rust deposits as well as other contaminations. Can be applied to epoxy coating, cable trays and stainless steel. HOCNF certified, non-toxic and non-flammable. Effective for removal of corrosion on stainless steel structures and aluminum*.
<b>Practical information</b>	<b>Color:</b> Yellow <b>Thickness:</b> 400-500 Microns WFT. <b>Theoretical coverage:</b> 2-4m <sup>2</sup> per L gel. <b>Practical coverage:</b> Allow for appropriate loss factors.
<b>Regulatory data</b>	<b>Value:</b> ~1277,03 kg/m <sup>3</sup> <b>pH:</b> <2 <b>Viscosity:</b> ~5000 mpa <b>Ecotoxicity:</b> Not classified as dangerous for the environment
<b>Use</b>	<p>Any loose rust deposits and loose paint should be removed prior to application in order to aid penetration of the product. Surfaces that shall not be treated should be masked and protected.</p> <p>Oil and grease must be removed using a suitable degreaser before applying Valhall Gel to the surface.</p> <p>Galvanized surfaces can be affected by the product.</p> <p>GRP (e.g. Fibaclad FRM1) will experience surface discoloration if exposed to the product.</p> <p>Some alloys of stainless steel and aluminium can experience discoloration when exposed to the product, please perform a test patch before use, see below.</p> <p>Pure epoxy topcoats can experience white staining when exposed to the product, please perform a test patch before use, see below.</p> <p><b>Test Patch</b></p> <p>It is strongly recommended that a small test patch is carried out on a representative area in order to ascertain the optimum application thickness and activation time required to successfully remove the deposits. Activation times are very much dependent upon the in-situ contamination level and condition.</p>

<b>Application</b>	<p><b>Mixing:</b> Mixing should not be required, but if separation has occurred, the product should be re-mixed until homogeneous.</p> <p><b>Mixing ratio:</b> N/A</p> <p><b>Airless spray:</b> Apply with a 17-32 thou tip with a spray angle of 65 to 80°. Pressure at spray tip should not exceed 105 kg/cm<sup>2</sup> (1500 psi). High pressure is not required to apply a uniformed coat. See Product Characteristics.</p> <p><b>Air Spray (pressure pot):</b> Not suitable</p> <p><b>Air Spray (Conventional):</b> Not suitable</p> <p><b>Brush/roller:</b> Possible on small spots. 200-300 microns can be achieved. Efficiency is lower than with airless spray.</p> <p><b>Thinner:</b> Not recommended</p> <p><b>Cleaner:</b> Clean water</p> <p>Product containers should be sealed when not in use to prevent product from drying out. Clean equipment immediately after use with water. Dispose of washing in accordance with local environmental legislation.</p>
<b>Removal</b>	<p>It is recommended to use high pressure water to wash off the product, preferably hot water and rotating nozzle. This improves removal rates and reduces water usage. 300-500 bar pressure is advised for large areas and to aid removal of alkaline salts from steel substrates. Lower pressure above 110 bar works on smaller areas. Areas cleaned down to bare carbon steel should be repainted as quickly as possible to prevent re-oxidation. For Stainless Steel one will get a excellent preservation effect after use of the gel.</p>
<b>Product Characteristics</b>	<p>Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Typical working pressures for airless spray application are approximately 105kg/cm<sup>2</sup> (1500 psi). This allows both an even atomization and film formation to be achieved. Excessive pressures should be avoided as this can lead to poor atomization and film formation thus reducing product efficiency. The removal rate of deposits is dependent upon the thickness and uniformity of product. Repeated applications may be required for areas where the contamination level is high. Test patching is recommended to determine activation time and removal efficiency prior to full application. When applying the product in confined spaces ensure adequate ventilation. Protect the product from freezing at all times during storage. It can be exposed to freezing temperatures for short periods during transport.</p>

<b>Safety precautions</b>	<p>Valhall Gel is intended for use by professionals in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet (MSDS) and the container(s), and should not be used without reference to the MSDS which Nordic Green Products provide its customers.</p> <p>All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards and regulations.</p> <p>For health and safety reasons this product must not be transferred out of its original packaging.</p> <p>If in doubt regarding the use of this product, consult Nordic Green Products AS for further advice.</p>
<b>Pack size</b>	<p>5 litre can 20 litre can 1000-litre IBC container</p>
<b>Shipping weight</b>	<p>1,190 kg/litre U.N Shipping No. Non-hazardous</p>
<b>Storage</b>	<p><b>Shelf life:</b> 12 months at 20°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from freezing at all times during storage.</p>

#### Important note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

#### Nordic Green Products AS

Idrettsveien 113B

5353 Straume -N

[post@ngproducts.no](mailto:post@ngproducts.no)

ph: +47 56 12 61 00

Org.no: 916 488 890 MVA