


**PRODUCT DATA SHEET**

|                      |  |                         |   |                                 |
|----------------------|--|-------------------------|---|---------------------------------|
| CAS Nr.<br>1314-13-2 | EC-reg. number<br>Category 3-b,[E6] Zinc Oxide | EINECS Nr.<br>215-222-5 | REACH registration Nr.<br>01-2119463881-32-0073 | Authorization Nr.<br>αEL0300004 |
|----------------------|--|-------------------------|---|---------------------------------|

**ZINC OXIDE 72% - ANIMAL FEED GRADE**

|  |   |      |             |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
|--|---|------|-------------|------|----|----|-----|------|-----|----|-----|------|----|----|-----|------|----|------------------|---|------|-----|--------------|-------------------|------|-------------|------------------|---|------|---|---------------------------------------|-------|------|-----|---|-------|------|-----|
| <p><b>Description</b><br/>Zinc Oxide 72%- Animal Feed Grade is a material manufactured by PIRAIKI METALS S.A. at its premises under all required manufacturing conditions and procedures in accordance with GMP + HACCP and ISO 9001 regulations.</p> <p><b>Applications</b><br/>Used as an additive of the category of trace elements in the animal feed industry.</p> <p><b>Qualitative features</b><br/>Free flowing powder with a high bulk density, easy to handle, suitable for automatic weighing, with good blending properties.</p> <p><b>Forms of delivery</b><br/>Zinc Oxide powder. Dry with a brownish colour.</p> <p><b>Packaging</b><br/>Paper bags of 25 Kg net.<br/>Big Bags of 1000 Kg net.</p> <p><b>Transport</b><br/>ADR/RID UN 3077 hazardous material, solid, N.O.S., (Zinc Oxide), 9, III<br/>IMDG UN 3077 Environmentally hazardous substance, solid, N.O.S.,(Zinc Oxide), 9, III.<br/>Marine pollutant: P, Segregation Group: 7 (Heavy metals and their salts, including their organometallic compounds)<br/>IATA-DGR UN 3077 Environmentally hazardous substance, solid, N.O.S. ,(Zinc Oxide), 9, III.</p> <p><b>Storage</b><br/>The material must be stored at a clean place under dry conditions. Must be kept far away from any incompatible materials. See Safety Data Sheet.</p> <p><b>Product Lifetime</b><br/>Up to 2 years from manufacturing date.</p> | <p style="text-align: center;"><b>TYPICAL CHEMICAL ANALYSIS</b></p> <table border="1"> <tr> <td>Zn</td> <td>%</td> <td>min.</td> <td>72</td> </tr> <tr> <td>Pb</td> <td>ppm</td> <td>max.</td> <td>400</td> </tr> <tr> <td>Cd</td> <td>ppm</td> <td>max.</td> <td>30</td> </tr> <tr> <td>As</td> <td>ppm</td> <td>max.</td> <td>70</td> </tr> <tr> <td>Moisture (105°C)</td> <td>%</td> <td>max.</td> <td>0.1</td> </tr> <tr> <td>Bulk density</td> <td>Kg/m<sup>3</sup></td> <td>max.</td> <td>2,300 ± 200</td> </tr> <tr> <td>Residue on 250µm</td> <td>%</td> <td>max.</td> <td>1</td> </tr> <tr> <td>Dioxine (PCDD/PCDF)<br/>WHO-PCDD/F-TEQ</td> <td>ng/Kg</td> <td>max.</td> <td>1.0</td> </tr> <tr> <td>Dioxine (PCDD/PCDF/PCB)<br/>WHO-PCDD/F-PCB-TEQ</td> <td>ng/Kg</td> <td>max.</td> <td>1.5</td> </tr> </table> <p style="text-align: center;">Maximum levels of the undesirable substances are defined according to the current European legislation on animal feed.</p> <p style="text-align: center;"><u>An individual specification agreement is highly recommended</u></p> <p style="text-align: center;"><b>Classification according to 2008/1272/EC (GHS)</b></p> <div style="text-align: center;">  </div> <p>Signal word: Warning</p> <p>Acute aquatic toxicity-category 1</p> <p>Chronic aquatic toxicity-category 1</p> <p style="text-align: center;"><b>Hazard Warnings H Phrases</b></p> <p><b>H400</b> Very toxic to aquatic life.<br/><b>H410</b> Very toxic to aquatic life with long lasting effects.</p> <p style="text-align: center;"><b>Safety Warnings P Phrases</b></p> <p><b>P273</b> Avoid release to the environment<br/><b>P391</b> Collect spillage<br/><b>P501</b> Dispose of content/container as hazardous or special waste in accordance with local/ international laws.</p> | Zn   | %           | min. | 72 | Pb | ppm | max. | 400 | Cd | ppm | max. | 30 | As | ppm | max. | 70 | Moisture (105°C) | % | max. | 0.1 | Bulk density | Kg/m <sup>3</sup> | max. | 2,300 ± 200 | Residue on 250µm | % | max. | 1 | Dioxine (PCDD/PCDF)<br>WHO-PCDD/F-TEQ | ng/Kg | max. | 1.0 | Dioxine (PCDD/PCDF/PCB)<br>WHO-PCDD/F-PCB-TEQ | ng/Kg | max. | 1.5 |
| Zn   | %   | min. | 72          |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Pb   | ppm   | max. | 400         |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Cd   | ppm   | max. | 30          |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| As   | ppm   | max. | 70          |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Moisture (105°C)   | %   | max. | 0.1         |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Bulk density   | Kg/m <sup>3</sup>   | max. | 2,300 ± 200 |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Residue on 250µm   | %   | max. | 1           |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Dioxine (PCDD/PCDF)<br>WHO-PCDD/F-TEQ  | ng/Kg   | max. | 1.0         |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |
| Dioxine (PCDD/PCDF/PCB)<br>WHO-PCDD/F-PCB-TEQ  | ng/Kg   | max. | 1.5         |      |    |    |     |      |     |    |     |      |    |    |     |      |    |                  |   |      |     |              |                   |      |             |                  |   |      |   |                                       |       |      |     |   |       |      |     |

CERTIFIED ACCORDING TO EN ISO 9001:2008 AND GMP+HACCP

PIRAIKI METALS S.A.

72<sup>nd</sup> Km nat. Road Athens- Lamia, P.C. 32200, GREECE

TEL: +30 2262072021 FAX: +30 2262072025

e-mail: [info@piraiki.gr](mailto:info@piraiki.gr) URL: [www.piraiki.gr](http://www.piraiki.gr)
 Cert. Nr.1302ISO901401018  
 Cert. Nr. 1212GMPPL15120118