

|                                             | DENTINGATION OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THE SUBSTANCE/MIXTURE AND OF THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|--|--|
| 1.1                                         | Product Identifiers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | Product Name: LOXHD1 Recombinant Protein Antigen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | Catalog Number: NBP3-17165PEP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | hviood oppingt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |  |  |  |  |
| 1.2                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ses of the substance or mixture and uses at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ivised against                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |  |  |  |  |
|                                             | Identified Uses:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 1.3                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | r of the safety data sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Novus Biologicals a Bio-Techne Brand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Telephone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1-888-506-                                                                         |  |  |  |  |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10771 E Easter Ave<br>Centennial, CO 80112 USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fax:<br>Internet:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1-303-730-1966<br>www.novusbio.com                                                 |  |  |  |  |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Email address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | novus@novusbio.com                                                                 |  |  |  |  |
|                                             | Canada:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 461 North Service Rd West                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Telephone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1-855-668-8722                                                                     |  |  |  |  |
|                                             | Ganada                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit B37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fax:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 902-827-6402                                                                       |  |  |  |  |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Oakville, ON L6M 2V5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Email address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Canada.inquiries@bio-techne.com                                                    |  |  |  |  |
|                                             | United Kingdom:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19 Barton Lane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Telephone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 44 (0)1235 529449                                                                  |  |  |  |  |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Abingdon Science Park                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fax:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 44 (0)1235 533420                                                                  |  |  |  |  |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Abingdon, OX14 3NB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Email address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | info.emea@bio-techne.com                                                           |  |  |  |  |
| 1.4                                         | Emergency Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | Emergency Tel:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | US: 303-730-1950 or 888-506-6887 / Eu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | urope: +44(0)1235-529449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |  |  |  |  |
| 2.                                          | HAZARDS IDENTIFIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.1                                         | Classification of the substance or mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
|                                             | Classification according to the Regulation (EC) No 1272/2008 Not Classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.2                                         | Label Elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | g to the Regulation (EC) No 1272/2008 Not Cla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | assified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |  |  |  |  |
| 2.2                                         | Label Elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | assified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |  |  |  |  |
| 2.2                                         | Label Elements Labelling according to F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | g to the Regulation (EC) No 1272/2008 Not Cla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | issified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                    |  |  |  |  |
|                                             | Label Elements<br>Labelling according to F<br>Other Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Regulation (EC) No 1272/2008 Not Regulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3                                         | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Regulation (EC) No 1272/2008 Not Regulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3<br>3.                                   | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Regulation (EC) No 1272/2008 Not Regulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3<br>3.                                   | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances                                                                                                                                                                                                                                                                                                                                                                                                                               | Regulation (EC) No 1272/2008 Not Regulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3<br>3.<br>3.1                            | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                            | Regulation (EC) No 1272/2008 Not Regulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3<br>3.<br>3.1                            | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures                                                                                                                                                                                                                                                                                                                                                                                                | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS                                                                                                                                                                                                                                                                                                                                                                                                                             | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0 |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2                     | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co                                                                                                                                                                                                                                                                                                                                                                    | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS                                                                                                                                                                                                                                                                                                                                                                                                                             | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co<br>FIRST AID MEASUR                                                                                                                                                                                                                                                                                                                                                | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations                                                                                                                                                                                                                                                                                                                                                                            | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co<br>FIRST AID MEASURI<br>Description of first aid                                                                                                                                                                                                                                                                                                                   | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations                                                                                                                                                                                                                                                                                                                                                                            | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co<br>FIRST AID MEASURE<br>Description of first aid<br>General Advice                                                                                                                                                                                                                                                                                                 | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations<br>EES<br>d measures                                                                                                                                                                                                                                                                                                                                                       | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co<br>FIRST AID MEASURE<br>Description of first aid<br>General Advice<br>Consult a doctor and sh                                                                                                                                                                                                                                                                      | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations                                                                                                                                                                                                                                                                                                                                                                            | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not co<br>FIRST AID MEASURE<br>Description of first aid<br>General Advice<br>Consult a doctor and sh<br>If Inhaled                                                                                                                                                                                                                                                        | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations<br>ES<br>d measures<br>how this safety data sheet.                                                                                                                                                                                                                                                                                                                         | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |  |  |  |  |
| 2.3<br>3.<br>3.1<br>3.2<br>4.               | Label Elements<br>Labelling according to F<br>Other Hazards<br>This substance/mixture<br>or higher.<br>COMPOSITION/INFO<br>Substances<br>Not applicable.<br>Mixtures<br>This product does not of<br>FIRST AID MEASURE<br>Description of first aid<br>General Advice<br>Consult a doctor and sh<br>If Inhaled<br>Remove to fresh air and<br>In Case of Skin Conta                                                                                                                                                                                                    | Regulation (EC) No 1272/2008 Not Regulated<br>e contains no components considered to be eith<br>DRMATION ON INGREDIENTS<br>contain hazardous chemicals at concentrations<br>ES<br>d measures<br>how this safety data sheet.<br>d monitor breathing. If breathing becomes difficact                                                                                                                                                                                                                                                                  | ner persistent, bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | is not known to contain carcinogens at concentrations of 0.1% or greater.          |  |  |  |  |
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# 5. FIRE-FIGHTING MEASURES

## 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

## 5.3 Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## **Appropriate Engineering Controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### **Personal Protective Equipment**

Eye / Face Protection

#### Use appropriate safety glasses.

## **Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. **Body Protection** 

Wear appropriate protective clothing.

#### **Respiratory Protection**

For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

| information on bablo physical and onorme          | ai pi opoi lico    |                           |                    |
|---------------------------------------------------|--------------------|---------------------------|--------------------|
| Appearance                                        | clear liquid       | Vapor Pressure            | No data available. |
| Odor                                              | Little to none     | Vapor Density             | No data available. |
| Odor Threshold                                    | No data available. | Relative Density          | No data available. |
| pH                                                | No data available. | Solubility(ies)           | No data available. |
| Melting / Freezing Point                          | No data available. | Partition Coefficient     | No data available. |
| Boiling Point / Range                             | No data available. | Autoignition Temperature  | No data available. |
| Flash Point                                       | No data available. | Decomposition Temperature | No data available. |
| Evaporation Rate                                  | No data available. | Viscosity                 | No data available. |
| Flammability (Solid, Gas)                         | No data available. | Explosive Properties      | No data available. |
| Upper / Lower Flammability or Explosive<br>Limits | No data available. | Oxidizing Properties      | No data available. |

9.2 Other safety information

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- No data available.
- 10.2 Chemical stability
- No data available.
- 10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid

No data available.

# 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx). In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute Toxicity

| Chamical Name                      | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LD50 (inhalation, rat) |
|------------------------------------|------------------------|---------------------------|------------------------|
| Urea                               | 8.471 mg/kg (Rat)      | >2000 mg/kg (Rat)         | 4h, > 0,83mg/l (Rat)   |
| Disodium<br>hydrogenorthophosphate | > 2000mg/kg (Rat)      | >2000 mg/kg (Rat)         | 4h, > 0,83mg/l (Rat)   |
| Sodium chloride                    | > 2000mg/kg (Rat)      | >10000 mg/kg (Kanin)      | 1h, > 42 mg/l (Rat)    |

#### Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

Respiratory or Skin Sensitization

Classified based on available data

# Germ Cell Mutagenicity

Classified based on available data

# Carcinogenicity

Classified based on available data

**Reproductive Toxicity** 

Classified based on available data

Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

## Symptoms / Routes of Exposure

| Inhalation:                     | There may be irritation of the throat with a feeling of tightness in the chest. |
|---------------------------------|---------------------------------------------------------------------------------|
| Ingestion:                      | There may be irritation of the throat.                                          |
| Skin:                           | There may be mild irritation at the site of contact.                            |
| Eyes:                           | There may be irritation and redness.                                            |
| Delayed / Immediate<br>Effects: | No known symptoms.                                                              |

#### Additional Information

Classified based on available data

## 12. ECOLOGICAL INFORMATION

Toxicity to fish flow-through test LC50 - Lepomis macrochirus (Bluegill) - 5.840 mg/l - 96 h (Sodium chloride) Remarks: (ECHA) No data available semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 203) semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (Urea) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 4.136 mg/l - 48 h (Sodium chloride) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline 202) static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (Disodium hydrogenorthophosphate) (DECD Test Guideline

Toxicity to algae static test EC50 - Nitzschia sp. - 2.430 mg/l - 120 h (Sodium chloride) (OECD Test Guideline 201) static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 201) static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 48 h (Urea) (OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (Disodium hydrogenorthophosphate) (OECD Test Guideline 209) static test EC50 - activated sludge - > 1.000 mg/l - 3 h (Urea) (OECD Test Guideline 209)

12.2 Persistence and degradability

No data available.

- 12.3 Bioaccumulative potential
- No data available.
- 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

No data available Discharge into the environment must be avoided. Discharge into the environment must be avoided. No data available Discharge into the environment must be avoided. Depending on the concentration, phosphates may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated Packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

## 14. TRANSPORT INFORMATION

Not regulated for Land Transport (ADR/RID), for Sea Transport (IMDG) or for Air Transport (IATA).

#### 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

#### 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

## Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act) : Not applicable.

SARA 313 : Not applicable.

SARA 311/312 : Not applicable.

CERCLA Reportable Quantity : Not applicable.

California Proposition 65 : Not applicable.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### 16. OTHER INFORMATION

## Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet