

Accepted Manuscript

Title: MICROPARTICLES BASED ON IONIC AND ORGANOSOLV LIGNINS FOR THE CONTROLLED RELEASE OF ATRAZINE

Authors: María Eugenia Taverna, Carlos Alberto Busatto, Maia Raquel Lescano, Verónica Viviana Nicolau, Cristina Susana Zalazar, Gregorio Raúl Meira, Diana Alejandra Estenoz



PII: S0304-3894(18)30522-3
DOI: <https://doi.org/10.1016/j.jhazmat.2018.07.010>
Reference: HAZMAT 19518

To appear in: *Journal of Hazardous Materials*

Received date: 21-2-2018
Revised date: 29-6-2018
Accepted date: 2-7-2018

Please cite this article as: Taverna ME, Busatto CA, Lescano MR, Nicolau VV, Zalazar CS, Meira GR, Estenoz DA, MICROPARTICLES BASED ON IONIC AND ORGANOSOLV LIGNINS FOR THE CONTROLLED RELEASE OF ATRAZINE, *Journal of Hazardous Materials* (2018), <https://doi.org/10.1016/j.jhazmat.2018.07.010>

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MICROPARTICLES BASED ON IONIC AND ORGANOSOLV LIGNINS FOR THE CONTROLLED RELEASE OF ATRAZINE

María Eugenia Taverna^{a,b}, Carlos Alberto Busatto^a, Maia Raquel Lescano^a, Verónica Viviana Nicolau^b, Cristina Susana Zalazar^a, Gregorio Raúl Meira^a, Diana Alejandra Estenoz^a

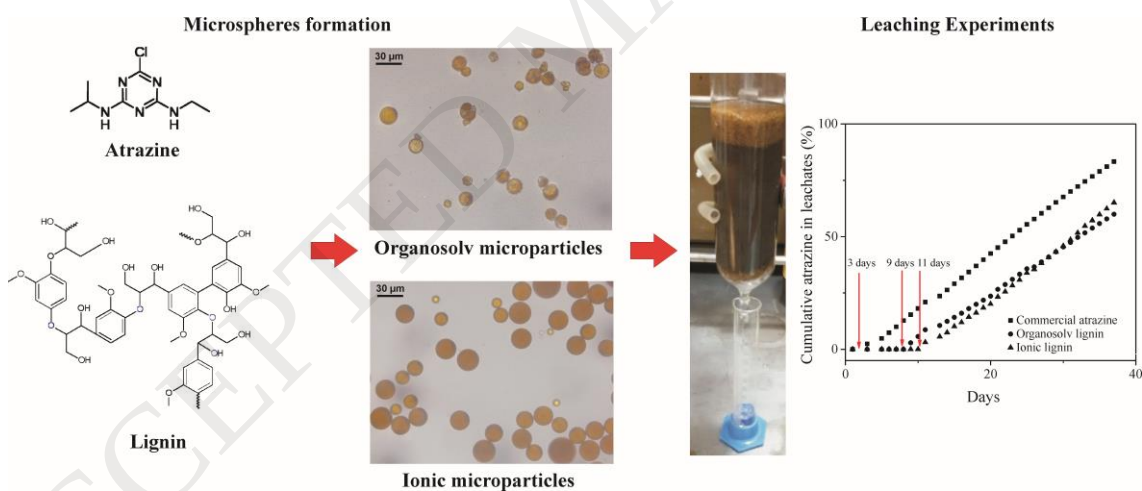
^a INTEC (UNL-CONICET), Güemes 3450, (3000) Santa Fe, Argentina

^b UTN Regional San Francisco, Av. de la Universidad 501, (2400) San Francisco, Córdoba, Argentina.

Correspondence to: Diana Estenoz (destenoz@santafe-conicet.gov.ar)

Tel-Fax: +54 (342) 451 1595/6 Int. 1088

Graphical abstract



Highlights

- Lignin microspheres from organosolv and ionic isolation were prepared for encapsulation and controlled release of atrazine
- Organosolv lignin particles showed higher encapsulation efficiency and rapid release rate compared to ionic lignin systems
- Atrazine-loaded microparticles reduce herbicide leaching in soil compared to the commercial formulation

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