

Accepted Manuscript

Title: Polyolefin-based interpenetrating polymer network absorbent for crude oil entrapment and recovery in aqueous system

Authors: Changwoo Nam, Gang Zhang, T.C Mike Chung



PII: S0304-3894(18)30148-1
DOI: <https://doi.org/10.1016/j.jhazmat.2018.03.004>
Reference: HAZMAT 19224

To appear in: *Journal of Hazardous Materials*

Received date: 11-11-2017
Revised date: 1-3-2018
Accepted date: 3-3-2018

Please cite this article as: Nam C, Zhang G, Chung TCM, Polyolefin-based interpenetrating polymer network absorbent for crude oil entrapment and recovery in aqueous system, *Journal of Hazardous Materials* (2010), <https://doi.org/10.1016/j.jhazmat.2018.03.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Polyolefin-based interpenetrating polymer network absorbent for crude oil entrapment and recovery in aqueous system

Changwoo Nam*, Gang Zhang and T.C Mike Chung

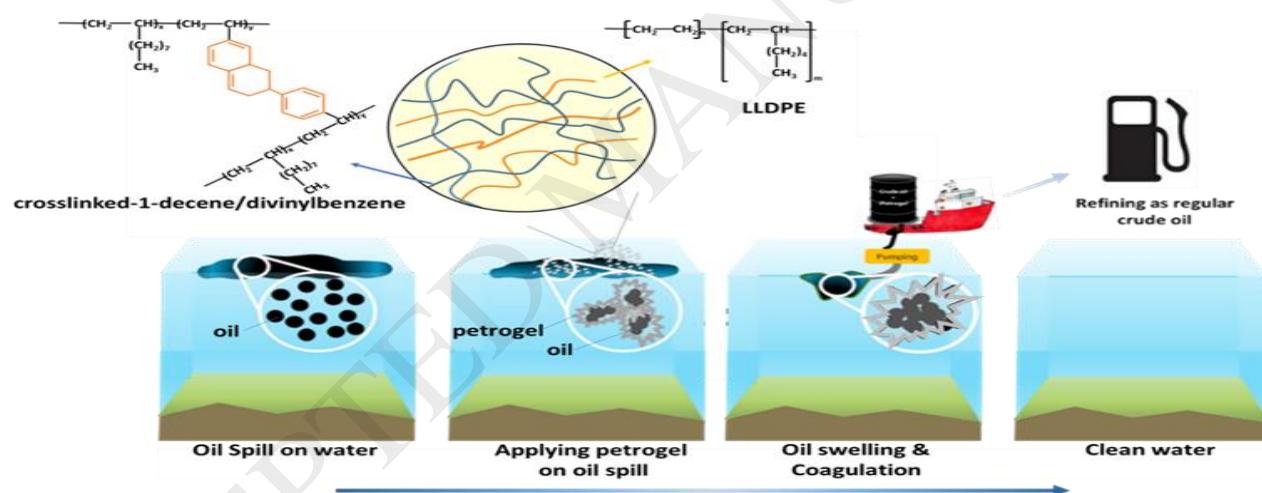
Materials Science and Engineering, The Pennsylvania State University, University Park, PA, 16802, USA

*Corresponding author.

Telephone: +1-814-441-6881

E-mail address: cun120@psu.edu (C. Nam)

Graphical abstract



Highlights

- New polyolefin-based absorbent for crude oil cleanup.
- The absorbent contains two independent and co-continuous polymer networks.
- Crude oil absorption capacity of the absorbent was 43 g g^{-1} .
- They can be recovered by physical methods, including skimmers.
- It can be refined as the original crude oil using regular refining processes.

Download English Version:

<https://daneshyari.com/en/article/6968776>

Download Persian Version:

<https://daneshyari.com/article/6968776>

[Daneshyari.com](https://daneshyari.com)