

Scenarios and methods that induce protruding or released CNTs after degradation of nanocomposite materials

- Online Supporting Information

Sabine Hirth¹, Lorenzo Cena², Gerhard Cox¹, Željko Tomović³, Thomas Peters*⁴, Wendel Wohlleben*¹

¹ BASF SE, 67056 Ludwigshafen, Germany

Tel +49 621 60 95339

Email: wendel.wohlleben@basf.com

² CDC/NIOSH, Morgantown, WV 26505 USA

³ BASF Polyurethanes GmbH, GMU/UE, Elastogranstrasse 60, 49448 Lemfoerde, Germany

⁴ The University of Iowa, Iowa City, IA 52242 USA

Email: thomas-m-peters@uiowa.edu

Fig. SI_1 Overview of the release by the combined action of weathering and mechanical methods, on the example of a TPU+CNT composite. Higher resolution TEM scans of characteristic individual fragments are shown in Fig. 7 c) – h) in the main text. Here we provide unfractionated TEM scans of the polydisperse and polymorph fragments of released material after UV-only weathering with c') shaker, d') ultrasound bath, e') ultrasound probe. Analogously, TEM images after UV+rain weathering and f') shaker, g') ultrasound bath, h') ultrasound probe.

