EVONIK INDUSTRIES

TSCA Confidential Business Information
Center (7407M)
EPA East - Room 6428 Attn: Section 8(e)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460-0001

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Tiana M. Rosamilia
Product Regulatory Services
Phone +1 973 541-8049
Fax +1 973 541-8040

Tiana.Rosamilia@evonik.com

Evonik Degussa Corporation
379 Interpace Parkway
Parsippany NJ 07054
www.evonik.com

TSCA 8(e) Submission for 1H-Pyrrole-2,5-dione, 1,1'-(4-methyl-1,3-phenylene)bis-

To Whom It May Concern:

Evonik Degussa has identified two toxicity endpoints for 1H-Pyrrole-2,5-dione, 1,1'-(4-methyl-1,3-phenylene)bis- (CAS # 6422-83-9) that are reportable under TSCA 8(e).

Aquatic Toxicity to Daphnia magna:

An EC50 test was preformed with Daphnia exposed to target concentrations of 0.10,0.22, 0.46, 1.0, 2.2 mg/l in a flow-through test system. Exposure was started 2 days following the start of the dosing to permit stabilization of the test concentrations. Analyses of the samples taken during the final test showed that the measured concentrations during the 48-hour test period were generally maintained stable within 20% of the start concentrations with recoveries ranging between approximately 30 to 60% of the target concentrations. The range tested based on the mean exposure concentrations was 0.059, 0.085, 0.19, 0.31 and 0.82 mg/l.

The NOEC was determined to be 0.31 mg/l under flow-through test conditions. The 24hr EC50 was 0.71 mg/l with a 95% Confidence Interval and the 48 hr EC50 was determined to be 0.59 mg/l with a 95% Confidence Interval.

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Primary Eye Irritation Study conducted with rabbits:

Three rabbits were dosed with 0.1g of 1H-Pyrrole-2,5-dione, 1,1'-(4-methyl-1,3-phenylene)bis- in one eye and observed for 21 days. The primary irritation score determined by this study was 7.92 when applied to the conjunctival sac of the rabbit. Corneal opacity was observed in all animals at any of the measuring intervals. At the 1hr observation a yellow staining of the eyelashes of the animals was observed, this is due to the yellowish pigment or coloring of the test article. There were no bodyweight differences in the animals and no necropsy was performed.

With kind regards,

Tiana M. Rosamilia