69511.8 Laundry Detergents Containing Nonylphenol Ethoxylates (NPEs)

(a)

"Laundry detergent containing nonylphenol ethoxylates (NPEs)" means any product intended to clean or remove soil or unwanted deposits from laundered clothes and textile products, such as sheets and tablecloths. This includes but is not limited to laundry detergents of any form, including granules, liquids, powders, tabs, crystals, or pods, that are used in washing machines, for hand washing, or as part of a laundry system. Detergents intended for use as a pre-soak or pre-spotter or with fabric or color protection properties are also included.

(b)

Candidate Chemical. For purposes of this chapter, the following Candidate Chemical is identified as the basis for the product defined in subsection (a) being listed as a Priority Product:(1) NPEs, a class of chemicals meeting either of these definitions:1. "4-Nonylphenol, branched and linear" described as ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering Unknown or Variable Composition, Complex Reaction Products and Biological Materials (UVCB) and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof; or 2. "Nonylphenol ethoxylates" described with the formula C9H19-C6H4OH(CH2CH2O)n, where n = 2-50, normally

between 6 and 12. (2) NPEs also include the following degradation products: nonylphenol, nonylphenol carboxylates, and shorter chain NPEs (i.e., nonylphenolmono ethoxylate and nonylphenol diethoxylate) that have broken down from longer chain NPEs.

(1)

NPEs, a class of chemicals meeting either of these definitions:1. "4-Nonylphenol, branched and linear" described as ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering Unknown or Variable Composition, Complex Reaction Products and Biological Materials (UVCB) and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof; or 2. "Nonylphenol ethoxylates" described with the formula C9H19-C6H4OH(CH2CH2O)n, where n = 2-50, normally between 6 and 12.

1.

"4-Nonylphenol, branched and linear" described as ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering Unknown or Variable Composition, Complex Reaction Products and Biological Materials (UVCB) and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof; or

2.

"Nonylphenol ethoxylates" described with the formula C9H19-C6H4OH(CH2CH2O)n, where n = 2-50, normally between 6 and 12.

(2)

NPEs also include the following degradation products: nonylphenol, nonylphenol carboxylates, and shorter chain NPEs (i.e., nonylphenolmono ethoxylate and nonylphenol diethoxylate) that have broken down from longer chain NPEs.

(c)

Hazard traits associated with NPEs include:(1) Bioaccumulation, (2) Environmental persistence, (3) Immunotoxicity, (4) Wildlife developmental impairment, (5) Wildlife growth impairment, (6) Wildlife reproductive impairment, and (7) Wildlife survival impairment.

(1)

Bioaccumulation,

(2)

Environmental persistence,

(3)

Immunotoxicity,

(4)

Wildlife developmental impairment,

(5)

Wildlife growth impairment,

(6)

Wildlife reproductive impairment, and

(7)

Wildlife survival impairment.

(d)

Environmental and toxicological endpoints associated with NPEs include: (1) Changes in circulating immune cell numbers, (2) Malformations, adverse impacts on rate of development and metamorphosis in aquatic species, (3) Abnormalities in growth rates and body size in aquatic species, (4) Adverse changes in reproductive endocrine function, structure and function of reproductive organs, including intersex organs, secondary sex characteristics, and vitellogenin

production, and (5) Death and narcosis.

(1)

Changes in circulating immune cell numbers,

(2)

Malformations, adverse impacts on rate of development and metamorphosis in aquatic species,

(3)

Abnormalities in growth rates and body size in aquatic species,

(4)

Adverse changes in reproductive endocrine function, structure and function of reproductive organs, including intersex organs, secondary sex characteristics, and vitellogenin production, and

(5)

Death and narcosis.

(e)

For purposes of this chapter, the Candidate Chemical identified in subsection (b) is designated as the Chemical of Concern for the product defined in subsection (a).

(f)

The Preliminary Alternatives Analysis Report for this Priority Product shall be submitted within 180 days after the effective date of this regulation.