

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION,  
PESTICIDES, AND TOXIC SUBSTANCES

May 19, 2006

**ACTION MEMORANDUM**

**SUBJECT:** Inert Ingredient Tolerance Reassessments - Nonyl, Decyl, and Undecyl Glycoside and Octyl and Decyl Glucosides

**FROM:** Pauline Wagner, Chief *Pauline Wagner 5/19/06*  
Inert Ingredient Assessment Branch  
Registration Division (7505C)

**TO:** Lois A. Rossi, Director  
Registration Division (7505C)

**I. FQPA REASSESSMENT ACTION**

**Action:** Reassessment of four (4) inert ingredient exemptions from the requirement of a tolerance. The reassessment decision is to maintain the inert tolerance exemptions "as-is."

**Chemicals:** Nonyl, decyl, and undecyl glycoside (2 tolerance exemptions)  
Octyl and decyl glucosides (2 tolerance exemptions)

Table 1 below lists the individual tolerance exemptions being reassessed for nonyl, decyl, and undecyl glycoside and octyl and decyl glucosides.

Table 1. Tolerance Exemption Being Reassessed in this Document					
Citation as it Appears in the CFR				CAS Registry Numbers and Names	List Classification
40 CFR	Tolerance Exemption Expression	Limits	Uses		
180.910	Nonyl, decyl, and undecyl glycoside mixture with a mixture of nonyl, decyl, and undecyl oligosaccharides and related reaction products (primarily decanol and undecanol) produced as an aqueous-based liquid (50 to 65% solids) from the reaction of primary alcohols (containing 15 to 20% secondary alcohol isomers)	None	Surfactant	132778-08-6; D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	3

	in a ratio of 20% C9, 40% C10, and 40% C11 with carbohydrates (average glucose to alkyl chain ratio 1.3 to 1.8)				
180.910	Octyl and decyl glucosides mixture with a mixture of octyl and decyloligosaccharides and related reaction products (primarily n-decanol) produced as an aqueous-based liquid (68-72% solids) from the reaction of straight chain alcohols (C8 (45%), C10 (55%)) with anhydrous glucose		Surfactants, related adjuvants of surfactants	68515-73-1; D-Glucopyranose, oligomeric, decyl octyl glycosides	3
180.930	Nonyl, decyl, and undecyl glycoside mixture with a mixture of nonyl, decyl, and undecyl oligosaccharides and related reaction products (primarily decanol and undecanol) produced as an aqueous-based liquid (50 to 65% solids) from the reaction of primary alcohols (containing 15 to 20% secondary alcohol isomers) in a ratio of 20% C9, 40% C10, and 40% C11 with carbohydrates (average glucose to alkyl chain ratio 1.3 to 1.8)		Surfactant	132778-08-6: D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	3
180.930	Octyl and decyl glucosides mixture with a mixture of octyl and decyloligosaccharides and related reaction products (primarily n-decanol) produced as an aqueous-based liquid (68-72% solids) from the reaction of straight chain alcohols (C8(45%), C10) with anhydrous glucose		Surfactants, related adjuvants of surfactants	68515-73-1; D-Glucopyranose, oligomeric, decyl octyl glycosides	3

**Summary:** A Federal Register Notice was published on September 14, 2005 (70 FR 54281), establishing an exemption from the requirement of a tolerance for alkyl (C<sub>10</sub>-C<sub>16</sub>) polyglycosides under 40 CFR 180.910 and 40 CFR 180.930. In that final rule it was concluded that alkyl (C<sub>10</sub>-C<sub>16</sub>) polyglycosides is a chemical of lower toxicity and that there is a reasonable certainty of no harm from aggregate exposures to residues of alkyl (C<sub>10</sub>-C<sub>16</sub>) polyglycosides. This determination was based upon publicly available and submitted toxicity data on various alkyl polyglycosides with alkyl groups ranging from C<sub>8</sub> to C<sub>14</sub>. Since both the nonyl, decyl, and undecyl glycosides and the octyl and decyl glucosides have chemical structures that fall within the ranges of C<sub>8</sub> to C<sub>14</sub>, it can likewise be concluded that these chemicals are also of lower toxicity and that there is a reasonable certainty of no harm from aggregate exposures to residues of these chemicals.

Taking into consideration the available information on nonyl, decyl, and undecyl glycosides and octyl and decyl glucosides, it is determined that there is a reasonable certainty that no harm to any population subgroup will result from aggregate exposure to

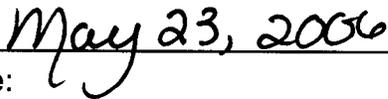
these chemicals when considering dietary exposure and all other nonoccupational sources of pesticide exposure for which there is reliable information. Therefore, the four exemptions from the requirement of a tolerance established for residues of nonyl, decyl, and undecyl glycosides and octyl and decyl glucosides under 40 CFR 180.910 and 40 CFR 180.930 can be considered reassessed as safe under section 408(q) of the FFDCA

## II. MANAGEMENT CONCURRENCE

I concur with the reassessment of the four (4) exemptions from the requirement of a tolerance for the inert ingredients nonyl, decyl, and undecyl glycosides and octyl and decyl glucosides listed in Table 1 above. I consider the exemptions from the requirement of a tolerance for nonyl, decyl, and undecyl glycosides and octyl and decyl glucosides established in 40 CFR §180.910 and the exemptions from the requirement of a tolerance for nonyl, decyl, and undecyl glycosides and octyl and decyl glucosides established in 40 CFR §180.930 be reassessed for purposes of FFDCA's section 408(q) as of the date of my signature, below. A Federal Register Notice regarding these tolerance exemption reassessment decisions will be published in the near future.



Lois A. Rossi, Director  
Registration Division



Date:

cc: Debbie Edwards, SRRD  
Joe Nevola, SRRD