

Attachment 11 Chemical Repellents for Humans and Toxicity Testing Products for End Products

Items Classifications	Types	Test								
		Active Components	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Primary eye irritation (skin irritation)	Mutagenicity testing	Dermal Sensitization	Aquatic Organism Toxicity	
Technical Grade Environmental Agents	Previously registered component (me-too comp.)	1	○	○	○	○	○	○	○	△
General Use Environmental Agents	Chemical repellents for human use	1	○	△2	△1	△3		○		
		2-3	○	○	△1	△3		○		
		4 or more	○	○	○	○	○	○	○	

Explanation:

- (1) ○ Indicators must be checked.
- (2) △ If original manufacturer has toxic test data, it should be provided.
- (3) △1 Spray should be provided.
- (4) △2 Oral acute toxicity LD₅₀ <2000mg/kg bw, should be provided.
- (5) △3 Those who have skin allergies should provide skin irritation and eye irritation.
- (6) The mutagenicity test includes: In vitro mammalian cell chromosome assay, bacterial reverse gene mutation, and in vivo mammalian cell chromosome cytogenetics assay.