

Identification and quantification of preservative chemicals in common household products

COSHH ASSESSMENT

Chemicals- Hazardous in quantities used in experiment	
<i>p</i> -Hydroxybenzoic acid methyl ester 54750	IRRITATING to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid ethyl ester 54660	IRRITATING to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid propyl ester 54790	IRRITATING to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid butyl ester 54680	Not hazardous according to Directive 67/548/EEC.
Ethyl 3-hydroxybenzoate 54650	HARMFUL if swallowed. IRRITATING to respiratory system and skin.
Acetonitrile	HIGHLY FLAMMABLE. Harmful by inhalation, in contact with skin and if swallowed. IRRITATING to eyes.
Acetic acid	FLAMMABLE. Causes severe burns.
Hexane	HIGHLY FLAMMABLE. IRRITATING to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ethyl Acetate	HIGHLY FLAMMABLE. IRRITATING to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
MTBSTFA + 1%TBDMCS	IRRITATING to respiratory tract, eye and skin. Contains material which causes damage to the following organs: mucous membranes, respiratory tract, skin, eyes, and central nervous system. FLAMMABLE. Vapour may cause fire..
silica gel	Not hazardous according to Directive 67/548/EEC.
First aid for above chemicals	
Eyes	Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
Lungs	Remove from exposure, rest and keep warm. In severe cases OBTAIN MEDICAL ATTENTION.
Skin	Wash off thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases OBTAIN MEDICAL ATTENTION.
Mouth	Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

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