

**Identification and quantification of preservative chemicals in common household products**

**COSHH ASSESSMENT**

<b>Chemicals- Hazardous in quantities used in experiment</b>	
<i>p</i> -Hydroxybenzoic acid methyl ester	<b>IRRITATING</b> to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid ethyl ester	<b>IRRITATING</b> to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid propyl ester	<b>IRRITATING</b> to eyes, respiratory system and skin
<i>p</i> -Hydroxybenzoic acid butyl ester	Not hazardous according to Directive 67/548/EEC.
Ethyl 3-hydroxybenzoate	<b>HARMFUL</b> if swallowed. <b>IRRITATING</b> to respiratory system and skin.
Acetonitrile	<b>HIGHLY FLAMMABLE.</b> Harmful by inhalation, in contact with skin and if swallowed. <b>IRRITATING</b> to eyes.
Acetic acid	<b>FLAMMABLE.</b> Causes severe burns.
Hexane	<b>HIGHLY FLAMMABLE. IRRITATING</b> 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	<b>HIGHLY FLAMMABLE. IRRITATING</b> to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
MTBSTFA + 1%TBDMCS	<b>IRRITATING</b> 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. <b>FLAMMABLE.</b> Vapour may cause fire..
silica gel	Not hazardous according to Directive 67/548/EEC.
<b>First aid for above chemicals</b>	
Eyes	Irrigate thoroughly with water for at least 10 minutes. <b>OBTAIN MEDICAL ATTENTION.</b>
Lungs	Remove from exposure, rest and keep warm. In severe cases <b>OBTAIN MEDICAL ATTENTION.</b>
Skin	Wash off thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases <b>OBTAIN MEDICAL ATTENTION.</b>
Mouth	Wash out mouth thoroughly with water and give plenty of water to drink. <b>OBTAIN MEDICAL ATTENTION.</b>

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