

Analysis of Chemical Flavourings in Chewing Gum

COSHH ASSESSMENT

Chemicals- Hazardous in quantities used in experiment	
Ethyl Acetate	HIGHLY FLAMMABLE. HARMFUL if swallowed or inhaled. Affects central nervous system. Causes irritation to skin, eyes and respiratory tract. Exposure to high concentrations may have a narcotic effect and may cause liver, kidney or lung damage. Chronic overexposure may cause anemia with leukocytosis, and damage to liver and kidneys.
Methanol	HIGHLY FLAMMABLE. TOXIC by ingestion. Damaging if splashed into eyes. High concentrations of vapour may cause dizziness, stupor, cramps and digestive disturbance. Lower levels may cause headache and nausea. Chronic effects-damages the central nervous system, particularly the optic nerve and internal organs.
Hexane	HIGHLY FLAMMABLE. HARMFUL if inhaled or swallowed. Causes irritation to skin, eyes and respiratory tract. Affects central and peripheral nervous systems. Overexposure may cause light headedness, nausea, headache, and blurred vision. Greater exposure may cause muscle weakness, numbness of the extremities, unconsciousness and death. Repeated or prolonged skin contact may defat the skin and produce irritation and dermatitis.
Carvone	IRRITANT in case of inhalation, ingestion, skin or eye contact. COMBUSTIBLE: slightly flammable in presence of naked flame.
Camphor	FLAMMABLE. HARMFUL if ingested. May cause mild irritation to skin, eyes, respiratory tract.
Chemicals- hazardous in other circumstances	
Hexane	HIGHLY FLAMMABLE. Evacuate laboratory if spillage exceeds 80 cm ³ .
Methanol	HIGHLY FLAMMABLE. Evacuate laboratory if spillage exceeds 80 cm ³ .
Ethyl Acetate	HIGHLY FLAMMABLE. Evacuate laboratory if spillage exceeds 80 cm ³ .
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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