Botanical Source

Synonyms MENTH-3-YL ISOVALERATE (para-)

MENTHYL ISOPENTANOATE MENTHYL ISOVALERIANATE

IUPAC Name

CAS Reference 16409-46-4

E Number

Food Legislation

Council of Europe (CoE)			
Number	Comment		
450	Listed by the Council of Europe as acceptable for use in food at up to 20 ppm.		

US Food and Drug Administration		
Number	Comment	
172.515	Approved by the US FDA. FDA 21 CFR 172.515	

Joint FAO/WHO Expert Committee on Food Additives (JECFA)				
Number	ADI	Comment		
432	-	No safety concern at current levels of intake when used as a flavouring agent.		

FEMA		
FEMA No.	Comment	
2669	Generally recognised as safe as a flavour ingredient:GRAS List Number 3	

Natural Occurrence and Use in Food

Found in nutmeg, peppermint oil; used in beverages, baked goods, chewing gum, dairy products, candy.

Estimated Intake from Food and Drink			
Daily Intake mg/kg/day FEMA Possible Average Daily Intake mg			
0.00000098	2.846		

Tobacco Product Related Chemical and Biological Studies for Ingredients Added in a Mixture

Smoke Chemistry			
Published Source	Level Tested %	Comment	
BAT	0.00100	At maximum application level this ingredient is not associated with significant increases in levels of Hoffmann analytes in smoke.	

Ames Activity			
Published Source Level Tested %		Comment	
BAT	0.00100	Within the sensitivity and specificity of the system the Ames activity of the cigarette smoke condensate was not increased by the addition of the ingredient.	

Micronucleus			
Published Source	Level Tested %	Comment	
BAT	0.00100	Within the sensitivity of the in vitro micronucleus assay the activity of the cigarette smoke condensate was not increased by the addition of the ingredient.	

Neutral Red				
Published Source Level Tested %		Comment		
ВАТ	0.00100	Within the sensitivity of the test system the in vitro cytotoxicity of the cigarette smoke condensate was not increased by the addition of the ingredient.		

Inhalation			
Published Source	Level Tested %	Comment	
BAT	0.00100	The results indicate that the addition of the ingredient had no discernible effect on the inhalation toxicity of mainstream smoke.	

Mouse Skin Painting

Published Source	Level Tested %	Comment

References

Baker RR, Pereira da Silva JR, Smith G. The effect of tobacco ingredients on smoke chemistry. Part I: Flavourings and additives. Food Chem Toxicol. 2004; 42 Suppl:S3-37.

Baker RR, Pereira da Silva JR, Smith G. The effect of tobacco ingredients on smoke chemistry. Part II: casing ingredients. Food Chem Toxicol. 2004; 42 Suppl:S39-52.

Baker RR, Massey ED, Smith G. An overview of the effects of tobacco ingredients on smoke chemistry and toxicity. Food Chem Toxicol. 2004; 42 Suppl:S53-83.

Tobacco Product Related Chemical and Biological Studies for Ingredients Tested Singly

References

Baker RR, Bishop LJ. The pyrolysis of tobacco ingredients. J. Anal. Appl. Pyrolysis 2004, 71, 223-311.

Toxicological Data on the Unburnt Ingredient

Organis	Test	Rout	Reported	Reference
m	Type	e	Dose	
rabbit	LD_{50}	skin	> 5 g/kg	Food and Chemical Toxicology. Vol.
				20, Pg. 735, 1982
rat	LD_{50}	oral	> 5 g/kg	Food and Chemical Toxicology. Vol.
				20, Pg. 735, 1982

References

Food and Chemical Toxicology. Vol. 20, Pg. 735, 1982.