

# THE AROMAVERSE-FZCO

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

## FLOROL/Pyranol

### Section 1 - Chemical Product and Company Identification

MSDS Name : FLOROL/Pyranol

**Synonyms :** Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixture of isomers

**Company Identification** THE AROMAVERSE-FZCO  
A6-3648479202, Premises No. A6-003-B ,  
IFZA Business Park, DDP. DUBAI, UNITED ARAB EMIRATES.  
Email: info@aromaverse.net

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#
63500-71-0	Pyranol	99%Min	-

Hazard Symbols: None Available

Risk Phrases: None Known.

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

#### POTENTIAL HEALTH EFFECTS

Eye

May cause irritation in the eyes



*Handwritten signature*

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Pictogram:



Precautionary Statements (Prevention):

P280 Wear eye protection.

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention

## Section 4 - First aid Measures

<b>Eyes</b>	Rinse immediately with plenty of water for 10 minutes at least.
<b>Skin</b>	Wash thoroughly with soap and water; flush with plenty of water.
<b>Ingestion</b>	Wash the mouth with water; seek medical advice immediately.
<b>Inhalation</b>	Move from exposure site to fresh air and keep at rest.
<b>Notes to Physician</b>	Treat symptomatically.

## Section 5 - Fire Fighting Measures

**General Information** Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.

**Extinguishing Media** CO<sub>2</sub>, foam, dry chemicals.

## Section 6 - Accidental Release Measures

**General Information** Prevent any contact with hot surfaces. Do not approach facing the wind.

**Spills/Leaks** Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material.

## Section 7 - Handling and Storage

**Handling** Apply according to good manufacturing and industrial hygiene practices with proper ventilation.

**Storage** Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container.

## Section 8 - Exposure Controls, Personal Protection

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**Engineering Controls** Ensure good ventilation of the work station.

## PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Use safety glasses.

**Skin** Avoid skin contact. Use chemical resistant gloves as needed.

**Respirators** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions



## Section 9 - Physical and Chemical Properties

Form:	liquid
Odour:	flowery
Odour threshold:	< 100 ppm Colour: colourless
pH value:	5.3 ( 23.65 g/l, 23 °C) (Directive 92/69/EEC, A.6) Melting point:
	< -100 °C ( 1,013 hPa) (OECD Guideline 102) Freezing point:
	No data available.
Boiling point:	226.9 °C ( 1,013.25 hPa) (measured)
Sublimation point:	No applicable information available.
Flash point:	106 °C (Directive 92/69/EEC, A.9, closed cup)
Flammability:	hardly combustible (derived from flash point) Lower explosion limit:
	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point. Upper explosion limit:
	For liquids not relevant for classification and labelling.
Autoignition:	328 °C (Directive 92/69/EEC, A.15)
Vapour pressure:	0.01 hPa ( 20 °C) (OECD Guideline 104) 0.26 hPa ( 50 °C) (OECD Guideline 104)

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Density:	0.95 g/cm <sup>3</sup> ( 20 °C, 1,013 hPa) (OECD Guideline 109)
Relative density:	0.95 ( 20 °C, 1,013 hPa) (OECD Guideline 109)
density:	> 1 ( 20 °C) Heavier than air. (calculated)
Partitioning coefficient noctanol/water (log Pow):	approx. 1.65 ( 23 °C) (Directive 84/449/EEC, A.8)
Self-ignition temperature:	Based on its structural properties the product is not classified as selfigniting.
Thermal decomposition:	approx. 485 °C (DSC (OECD 113))
Viscosity, dynamic: (OECD 114)	234 mPa.s ( 20 °C) (OECD 114) 39.8 mPa.s ( 40 °C)
Viscosity, kinematic: (OECD 114)	247 mm <sup>2</sup> /s ( 20 °C) (OECD 114) 42.6 mm <sup>2</sup> /s ( 40 °C)
Particle size:	The substance / product is marketed or used in a non solid or granular form
Solubility in water:	23.653 g/l ( 23 °C)
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	172.27 g/mol
Evaporation rate:	Value can be approximated from Henry's Law
Constant or vapor pressure.	

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal temp and pressure.
<b>Conditions to Avoid</b>	Avoid contact with strong acids, alkali or oxidizing agents.
<b>Incompatibilities with Other Materials</b>	strong acids, alkali or oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon Monoxide and carbon Dioxide
<b>Hazardous Polymerization</b>	Not Known.



## Section 11 - Toxicological Information

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## Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact.

Skin contact may be a route of entry for liquefied gases.

## Acute Toxicity/Effects

### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

### Oral

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg (OECD Guideline 401)

### Inhalation

No applicable information available.

### Dermal

Type of value:

LD50 Species: rabbit (male/female)

Value: > 2,000 mg/kg (OECD Guideline 402)

### Assessment other acute effects

### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

### Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

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## Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Effects on the kidney of male rats were detected after repeated exposure. These effects are specific for the male rat and are known to be of no relevance to humans. No adverse effects were observed after repeated dermal exposure in animal studies.

Genetic toxicity.

Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: In animal studies the substance did not cause malformations.

## Section 12 - Ecological Information

**Other** .None Available.

## Section 13 - Disposal Considerations

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Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information			
	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not Regulated	Not Regulated	Not Regulated
<b>Hazard Class:</b>			
<b>UN Number:</b>			

## Section 15 - Regulatory Information

European/International Regulations:

European Labeling in Accordance with EC Directives



Hazard Symbols:

Risk Phrases: R20/21/22

R36/37/38

Safety Phrases: Not Available.

United Kingdom Occupational Exposure Limits: Not Known.

Canada : Product is on the DSL list.

Exposure Limits

US FEDERAL

TSCA : Product is listed on the TSCA list.

## Section 16 - Additional Information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages. -----  
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