


**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>BANANA FLAVOR (Liquid) (FlavoRx)</b>
<b>PRODUCT CODE</b>	<b>2977</b>
<b>SUPPLIER</b>	<b>MEDISCA Inc.</b> Tel.: 1.800.932.1039   Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 <b>MEDISCA Pharmaceutique Inc.</b> Tel.: 1.800.665.6334   Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 <b>MEDISCA Australia PTY LTD</b> Tel.: 1.300.786.392   Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
<b>EMERGENCY PHONE</b>	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126
<b>USES</b>	Flavouring agent

**SECTION 2: HAZARDS IDENTIFICATION**

<b>GHS CLASSIFICATION</b>	Flammable Liquid (Category 3)
<b>PICTOGRAM</b>	
<b>SIGNAL WORD</b>	Warning
<b>HAZARD STATEMENT(S)</b>	Flammable liquid and vapor. Causes irritation to skin, eyes and respiratory tract. May cause an allergic reaction. Limited evidence of a carcinogenic effect.
<b>AUSTRALIA-ONLY HAZARDS</b>	Repeated exposure may cause skin dryness or cracking.
<b>PRECAUTIONARY STATEMENT(S)</b>	<b>Prevention</b> <ul style="list-style-type: none"> <li>Keep away from heat, sparks, open flames and/or hot surfaces - No smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/Bond container and receiving equipment.</li> <li>Use explosion-proof equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>Wash thoroughly after handling.</li> <li>Avoid breathing dust, fume, gas, mist, vapors, spray.</li> <li>Contaminated work clothing must not be allowed out of the workplace.</li> </ul>

<b>Response</b>	IF ON SKIN (HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IN CASE OF FIRE: Use dry chemical, CO <sub>2</sub> , alcohol resistant foam or water spray to extinguish			
<b>Storage</b>	Store in a well-ventilated place. Keep cool.			
<b>Disposal</b>	Dispose of contents and/or container in accordance with local regulations.			
<b>HMIS CLASSIFICATION</b>	<b>Health Hazard</b>	2	<b>Flammability</b>	3
	<b>Reactivity</b>	0	<b>Personal Protection</b>	E

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>CHEMICAL NAME</b>	Not applicable
<b>BOTANICAL NAME</b>	Not applicable
<b>SYNONYM</b>	Not applicable
<b>CHEMICAL FORMULA</b>	Not applicable
<b>CAS NUMBER</b>	Not applicable
<b>ALTERNATE CAS NUMBER</b>	Not applicable
<b>MOLECULAR WEIGHT</b>	Not applicable

COMPOSITION	CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
	ETHANOL	64-17-5	10 - 25
	ISOAMYL ACETATE	123-92-2	5 - 10
	FURFURAL	98-01-1	< 2
	EUGENOL	97-53-0	proprietary*
	PROPYLENE GLYCOL	57-55-6	50 - 75

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

**NOTES** As per the supplier, all flavor ingredients contained in this product are approved for use in a regulation of the FDA or are listed as being generally recognized as safe on the FEMA GRAS list.

\*Flavoring components are considered trade secret. Therefore the chemical names, exact compositional breakdown, or other chemical identification of the specific compounds of flavor ingredients are withheld in accordance with 1910.1200 of the Code of Federal regulations.

This product contains: Propylene Glycol, Alcohol, Water and Natural & Artificial Flavor\*

### SECTION 4: FIRST-AID MEASURES

<b>IN CASE OF EYE CONTACT</b>	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
<b>IN CASE OF SKIN CONTACT</b>	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.
<b>IF SWALLOWED</b>	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.
<b>IF INHALED</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician
<b>SYMPTOMS AND EFFECTS</b>	Not expected to present a significant hazard under anticipated conditions of normal use.

**SECTION 5: FIREFIGHTING MEASURES**
**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

Not applicable

**FLAMMABLE PROPERTIES**

Flammable liquid and vapor.

**HAZARDOUS COMBUSTION PRODUCTS**

Under fire conditions, hazardous fumes will be present.

**EXTINGUISHING MEDIA**
**Small fire:** dry chemical, CO<sub>2</sub> or water spray. **Large fire:** dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**
**PERSONAL PRECAUTIONS**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**METHODS & MATERIAL FOR CONTAINMENT**

On land, sweep or shovel into suitable containers.

**CLEANUP PROCEDURE**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

**SECTION 7: HANDLING AND STORAGE**
**PRECAUTIONS FOR SAFE HANDLING**

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

**STORAGE CONDITIONS**

Store in original container, tightly sealed, protected from direct sunlight and moisture. Preserve in tight containers away from heat and sources of ignition.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Chemical Name: ETHANOL CAS #: 64-17-5

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	1000 ppm (1900 mg/m <sup>3</sup> )	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	1000 ppm	-	-	-
NIOSH	1000 ppm (1900 mg/m <sup>3</sup> )	N/L	N/L	N/L	3300 ppm 10%LEL (See:64175)	-
AIHA WEEL	N/L	N/L	N/L	-	-	-

YOUR TRUSTED PARTNER IN COMPOUNDING

Safe Work Australia HSIS	1000 ppm (1880 mg/m <sup>3</sup> )	N/L	N/L	-	-	-
HSE	1000 ppm (1920 mg/m <sup>3</sup> )	N/L	N/L	-	-	-

**Chemical Name: EUGENOL CAS #: 97-53-0**

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	N/L	N/L	N/L	-	-	-
HSE	N/L	N/L	N/L	-	-	-

**Chemical Name: FURFURAL CAS #: 98-01-1**

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	5 ppm (20 mg/m <sup>3</sup> )	N/L	-	-	-	Skin
ACGIH TLV	2 ppm	N/L	N/L	-	-	Skin
NIOSH	5 ppm (20 mg/m <sup>3</sup> )	N/L	N/L	N/L	100 ppm	Skin
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	2 ppm (7.9 mg/m <sup>3</sup> )	N/L	N/L	-	-	Skin
HSE	2 ppm (8 mg/m <sup>3</sup> )	N/L	5 ppm (20 mg/m <sup>3</sup> )	-	-	Skin

**Chemical Name: ISOAMYL ACETATE CAS #: 123-92-2**

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	100 ppm (525 mg/m <sup>3</sup> )	N/L	-	-	-	-
ACGIH TLV	50 ppm	N/L	100 ppm	-	-	-
NIOSH	100 ppm (525 mg/m <sup>3</sup> )	N/L	N/L	N/L	1000 ppm	-
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	50 ppm (270 mg/m <sup>3</sup> )	N/L	100 ppm (541 mg/m <sup>3</sup> )	-	-	-
HSE	N/L	N/L	N/L	-	-	-

**Chemical Name: PROPYLENE GLYCOL CAS #: 57-55-6**

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	10 mg/m <sup>3</sup>	N/L	N/L	-	-	-
Safe Work Australia HSIS	10 mg/m <sup>3</sup>	N/L	N/L	-	-	-
HSE	10 mg/m <sup>3</sup>	N/L	N/L	-	-	-

N/L = Not Listed

**EXPOSURE GUIDELINES**

 Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m<sup>3</sup>.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**SPECIFIC ENGINEERING CONTROLS**

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

**NOTES**

Skin notation has been assigned and the methods of use provide a potential exposure route via skin absorption.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE</b>	Liquid				
<b>DESCRIPTION</b>	Colorless to pale yellow liquid with characteristic odor.				
<b>SOLUBILITY</b>	Soluble in water.				
<b>ODOR</b>	Characteristic odor				
<b>FLAMMABILITY</b>	Flammable liquid and vapor.				
<b>ODOR THRESHOLD</b>	Not available	<b>pH</b>	Not available	<b>MELTING POINT</b>	Not available
<b>BOILING POINT</b>	Not available	<b>FREEZING POINT</b>	Not available	<b>FLASH POINT</b>	31 °C, 87.8 °F
<b>SPECIFIC GRAVITY</b>	0.9700 - 1.0100 (25°C)	<b>EVAPORATION RATE</b>	Not available	<b>EXPLOSIVE LIMIT</b>	Not available
<b>UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)</b>	15.0 (v/v) %	<b>LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)</b>	2.6 (v/v) %	<b>VAPOR PRESSURE</b>	59 hPa (20°C)
<b>VAPOR DENSITY (AIR = 1)</b>	Not available	<b>RELATIVE DENSITY (WATER = 1)</b>	Not available	<b>log P (OCTANOL-WATER)</b>	Not available
<b>AUTO-IGNITION TEMPERATURE</b>	Not available	<b>DECOMPOSITION TEMPERATURE</b>	Not available	<b>VISCOSITY</b>	Not available

**NOTES**

The physical data presented above are typical values and should not be construed as a specification.

**SECTION 10: STABILITY AND REACTIVITY**

<b>REACTIVITY</b>	Not established
<b>STABILITY</b>	Stable under recommended storage conditions.
<b>MATERIALS TO AVOID</b>	Strong oxidants.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.
<b>POSSIBILITY OF HAZARDOUS REACTION</b>	Not established

**CONDITIONS TO AVOID**

Moisture, sunlight and extreme temperatures.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**ACUTE TOXICITY**

Oral: Rat: LD50: (mg/kg): Not available  
 Dermal: Rabbit LD50: (mg/kg): Not available  
 Inhalation: Rat: LC50: (mg/L/4hr): Not available

**SKIN CORROSION/IRRITATION**

Based on available data, the classification criteria are not met.  
 Contains ingredients (ETHANOL and FURFURAL) causes skin irritation.

**SERIOUS EYE DAMAGE/EYE IRRITATION**

Based on available data, the classification criteria are not met.  
 Contains ingredients (ETHANOL, FURFURAL and EUGENOL) causes eye irritation.

**RESPIRATORY OR SKIN SENSITIZATION**

Respiratory sensitization: Due to lack of data the classification is not possible.  
 Skin sensitization: EUGENOL is on the EU list of 26 skin allergens in fragrances. May cause an allergic skin reaction.

**GERM CELL MUTAGENICITY**

Based on available data, the classification criteria are not met.

**CARCINOGENICITY**

**OSHA** ETHANOL is listed.  
 FURFURAL is listed.  
 Based on the compositional information available from the supplier, no other component of this product is listed.

**NTP** ETHANOL is listed.  
 Based on the compositional information available from the supplier, no other component of this product is listed.

**IARC** ETHANOL is listed in group 1 (carcinogenic to humans).  
 FURFURAL is listed in group 3 (not classifiable as to its carcinogenicity to humans).  
 EUGENOL is listed in group 3 (not classifiable as to its carcinogenicity to humans).  
 Based on the compositional information available from the supplier, no other component of this product is listed.

**California Proposition 65** This product contains the following chemical known to the State of California to cause cancer: ETHANOL.  
 Based on the compositional information available from the supplier, no other component of this product is listed.

**ADDITIONAL CARCINOGENICITY INFORMATION**

Based on available data, the classification criteria are not met.

**REPRODUCTIVE TOXICITY**

Based on available data, the classification criteria are not met.

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE**

Due to lack of data the classification is not possible.

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE**

Due to lack of data the classification is not possible.

**ASPIRATION HAZARDS**

Due to lack of data the classification is not possible.

**SIGNS AND SYMPTOMS OF EXPOSURE**

Not expected to present a significant hazard under anticipated conditions of normal use.  
 May cause allergic reaction.

**POTENTIAL HEALTH EFFECTS**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation. May cause an allergic skin reaction.

**Eyes** Causes eye irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

YOUR TRUSTED PARTNER IN COMPOUNDING

<b>TOXICITY</b>	EC50: 48 Hr: Crustacea: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available
<b>PERSISTENCE AND DEGRADABILITY</b>	Not available
<b>BIOACCUMULATIVE POTENTIAL</b>	Not available
<b>MOBILITY IN SOIL</b>	Soluble in water.
<b>OTHER ADVERSE EFFECTS</b>	Not available This product is not intended to be released into the environment

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL</b>	Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.
-----------------------	---

## SECTION 14: TRANSPORT INFORMATION

### UNITED STATES & CANADA

<b>UN PROPER SHIPPING NAME</b>	EXTRACTS, FLAVOURING, LIQUID
<b>UN NUMBER</b>	1197
<b>CLASS</b>	3
<b>PACKING GROUP</b>	III

### AUSTRALIA

<b>UN PROPER SHIPPING NAME</b>	EXTRACTS, FLAVOURING, LIQUID
<b>UN NUMBER</b>	1197
<b>CLASS</b>	3
<b>PACKING GROUP</b>	III
<b>HAZCHEM</b>	3Y

<b>ENVIRONMENTAL HAZARDS</b>	Not available
<b>SPECIAL SHIPPING INFORMATION</b>	Not applicable

## SECTION 15: REGULATORY INFORMATION

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Pennsylvania	Right-to-know		California Prop 65
			Appendix A	Appendix B		New Jersey	Massachusetts	
ETHANOL 64-17-5	N/L	N/L	N/L	N/L	X	X	X	X
ISOAMYL ACETATE 123-92-2	X	N/L	N/L	N/L	X	X	X	N/L
PROPYLENE GLYCOL 57-55-6	N/L	N/L	N/L	N/L	X	X	N/L	N/L
FURFURAL 98-01-1	X	N/L	N/L	N/L	X	X	X	N/L
EUGENOL 97-53-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

**AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
ETHANOL 64-17-5	N/L	N/L	Listed as Category III
ISOAMYL ACETATE 123-92-2	N/L	N/L	N/L
PROPYLENE GLYCOL 57-55-6	N/L	N/L	N/L
FURFURAL 98-01-1	N/L	N/L	N/L
EUGENOL 97-53-0	N/L	Listed as Schedule 6	Listed as Category II

**SECTION 16: OTHER INFORMATION**
**REFERENCES**

Available upon request

**ABBREVIATIONS AND ACRONYMS**

**CAS** – Chemical Abstract Service; **GHS** – Global Harmonized System; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **TWA** – Time Weighted Average; **HSIS** – Hazardous Substances Information System; **STEL** – Short Term Exposure Limit; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **LD50** – Lethal Dose, 50%; **IARC** – International Agency for Research on Cancer; **NTP** – National Toxicology Program; **WHMIS** – Workplace Hazardous Materials Information System; **SARA** – Superfund Amendments and Reauthorization Act; **EPA** – Environmental Protection Agency; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **HMIS** – Hazardous Materials Information System; **NIOSH** – National Institute for Occupational Safety and Health; **MSHA** - Mine Safety and Health Administration; **ACGIH** - American Conference of Governmental Industrial Hygienists; **IDHL** - Immediately Dangerous to Health or Life; **TLV** – Threshold Limit Value; **HSE** – Health and Safety Executive; **REL** - Recommended Exposure Limit

**LAST REVISION**

03/2019

**SUPERSEDES**

04/2016

**DISCLAIMER**

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.