


**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>MANGO FLAVOR (Liquid) (FlavoRx)</b>
<b>PRODUCT CODE</b>	<b>2982</b>
<b>SUPPLIER</b>	<b>MEDISCA Inc.</b> Tel.: 1.800.932.1039   Fax.: 1.855.850.5855 626 Tom Miller Road, Plattsburgh, NY, 12901 <b>MEDISCA Pharmaceutique Inc.</b> Tel.: 1.800.665.6334   Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 <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 National Chemical Emergency Centre 44(0)1235239670
<b>RECOMMENDED USES</b>	Pharmaceutical Manufacturing
<b>RESTRICTIONS ON USE</b>	Not applicable

**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>ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS</b>	Repeated exposure may cause skin dryness or cracking.

**PRECAUTIONARY STATEMENT(S)**

<b>Prevention</b>	Keep away from heat, sparks, open flames and No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof equipment Use non-sparking tools Take action to prevent static discharges Wear protective gloves, protective clothing, eye and face protection. Wash hands thoroughly after handling. Do not touch eyes. Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	IF ON SKIN (HAIR): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. 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, CO2, 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.

**HMIS CLASSIFICATION**

<b>Health Hazard</b>	2	<b>Flammability</b>	2
<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>CHEMICAL FAMILY</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	EC NUMBER	% BY WEIGHT
	(R)-P-MENTHA-1,8-DIENE (D)-Limonene	5989-27-5	227-813-5	proprietary*
	BENZYL ACETATE	140-11-4	205-399-7	proprietary*
	ETHANOL	64-17-5	200-578-6	5 - 10
	FURFURAL	98-01-1	202-627-7	proprietary*
	ISOBUTYL ACETATE	110-19-0	203-745-1	1 - 5
	PROPYLENE GLYCOL	57-55-6	200-338-0	75 - 100

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 and Natural & Artificial Flavors\*

Also contains proprietary ingredient A:

Xn R22; Acute Tox. 4; H302; >1 – 5%

Proprietary ingredient B:

T R23/25; Xn R21-40; Xi R36/37/38; Acute Tox. 3, H301; Acute Tox. 3, H331; Carc. 2, H351; Acute Tox. 4, H312; Eye Irrit. 2, H319; STOT SE 3, H335; >0.1 - 1 %

Proprietary ingredient C:

N R51/53; Aquatic Chronic 2, H411; >0.1 – 1%

## SECTION 4: FIRST-AID MEASURES

## IN CASE OF EYE CONTACT

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

## IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

## IF SWALLOWED

Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

## IF INHALED

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician

MEDICAL ATTENTION AND  
SPECIAL TREATMENT

Get emergency medical help.

SYMPTOMS CAUSED BY  
EXPOSURE

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.

SUITABLE & UNSUITABLE  
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.

**REFERENCE TO OTHER SECTIONS**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

**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 unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

**CONDITIONS FOR SAFE STORAGE**

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 unlabeled 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.

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

Chemical Name: (R)-P-MENTHA-1,8-DIENE ((D)-Limonene) CAS #: 5989-27-5

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Finland	25	140	50(1)	280(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (AGS)	5(1)	28(1)	20(1)(2)	110(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Germany (DFG)	5(1)	28(1)	20(1)(2)	112(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Norway	25	140	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	30(1)	168(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
GESTIS	Switzerland	7	40	14(1)	80(1)	N/L	N/L	N/A	(1) 15 minutes average value

**Chemical Name: BENZYL ACETATE CAS #: 140-11-4**

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	10	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Belgium	10	62	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Ontario	10	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	10	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Denmark	10	61	20	122	N/L	N/L	N/A	N/A
GESTIS	Ireland	10	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Romania	8	50	13(1)	80(1)	N/L	N/L	N/A	N/A
GESTIS	Spain	10	62	N/L	N/L	N/L	N/L	N/A	N/A

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

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	1000	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	1000	1900	N/L	N/L	3300 ppm 10%LEL (See:64175 )	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	1000	1920	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Austria	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Belgium	1000	1907	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Ontario	N/L	N/L	1000	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	N/L	N/L	1000(1)	N/L	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Denmark	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Finland	1000	1900	1300(1)	2500(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	1000	1900	5000	9500	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	200	380	800(1)	1520(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	200	380	800(1)	1520(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	1900	N/L	3800(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Ireland	N/L	N/L	N/L	1000(1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Latvia	N/L	1000	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Norway	500	950	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Romania	1000	1900	5000(1)	9500(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Africa	N/L	N/L	2000(1)	N/L	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	South Africa Mining	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Korea	1000	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	N/L	N/L	1000	1910	N/L	N/L	N/A	N/A
GESTIS	Sweden	500	1000	1000(1)	1900(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	500	960	1000	1920	N/L	N/L	N/A	N/A

<b>GESTIS</b>	The Netherlands	N/L	260(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
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**Chemical Name: FURFURAL CAS #: 98-01-1**

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	5(1)	20(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
ACGIH	USA	2	N/L	N/L	N/L	N/L	N/L	N/A	Skin
NIOSH	USA	5	20	N/L	N/L	100	N/L	N/A	Skin
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	2(1)	7.9(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
HSE	UK	2(1)	8(1)	5(1)(2)	20(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Austria	5(1)	20(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
GESTIS	Belgium	2(1)	8.0(1)	N/L	N/L	N/L	N/L	N/A	(1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.
GESTIS	Canada-Ontario	2	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	2(1)	N/L	N/L	N/L	N/L	N/L	N/A	(1) Skin
GESTIS	Denmark	2(1)	7.9(1)	4(1)(2)	15.8(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Finland	2	8	5(1)	20(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	N/L	N/L	2	8	N/L	N/L	N/A	N/A
GESTIS	Hungary	N/L	8(1)	N/L	20(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Ireland	2	8	5(1)	20(1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Japan (JSOH)	2.5	9.8	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	0.2	0.8	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Norway	2(1)	8(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
GESTIS	China	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	10(1)	N/L	25(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Romania	2.5	10	4(1)	15(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	2	7.9	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Africa	0.4(1)	N/L	N/L	N/L	N/L	N/L	N/A	(1) Skin
GESTIS	South Africa Mining	2(1)	8(1)	10(1)(2)	40(1)(2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	South Korea	2(1)	N/L	N/L	N/L	N/L	N/L	N/A	(1) Skin

<b>GESTIS</b>	Spain	2	8	N/L	N/L	N/L	N/L	N/A	Skin
<b>GESTIS</b>	Sweden	2	8	5 (1)	20(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Switzerland	2	8	N/L	N/L	N/L	N/L	N/A	N/A

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**Chemical Name: ISOBUTYL ACETATE CAS #: 110-19-0**

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	150	700	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	150	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	150	700	N/L	N/L	1300 ppm 10%LEL (See:11019 0)	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	150	713	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	150	724	187(1)	903(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Austria	50	241	100(1)	480(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Belgium	50	238	150(1)	712(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada-Ontario	150	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	50	N/L	150(1)	N/L	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Denmark	150	241	300(1)	1420(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	European Union	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value ; Indicative Occupational Exposure Limit Value (IOELV)
GESTIS	Finland	50	240	150(1)	725(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	50	241	150(1)	723(1)	N/L	N/L	N/A	Restrictive statutory limit values (1) 15 minutes average value
GESTIS	Germany (AGS)	62	300	124(1)	600(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	100	480	200(1)	960(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	241	N/L	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Ireland	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Italy	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Japan (MHLW)	150	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	50(1)	241(1)	150(1)(2)	723(1)(2)	N/L	N/L	N/A	(1) OEL value is in force from 20.05.2021. (2) 15 minutes average value
GESTIS	New Zealand	150	713	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Norway	50	241	N/L	N/L	N/L	N/L	N/A	N/A

<b>GESTIS</b>	Poland	N/L	240	N/L	720(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Romania	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Singapore	150	713	N/L	N/L	N/L	N/L	N/A	N/A
<b>GESTIS</b>	South Africa Mining	150	700	187(1)	875 (1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	South Korea	150	N/L	187(1)	N/L	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Spain	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Sweden	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	Switzerland	50	240	150(1)	720(1)	N/L	N/L	N/A	(1) 15 minutes average value
<b>GESTIS</b>	The Netherlands	50	241	150(1)	723(1)	N/L	N/L	N/A	(1) 15 minutes average value

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

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
<b>OSHA</b>	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
<b>ACGIH</b>	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
<b>NIOSH</b>	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
<b>WEEL</b>	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
<b>HSIS</b>	Australia	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A
<b>HSE</b>	UK	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A
<b>GESTIS</b>	Canada-Ontario	N/L	10(1)	N/L	N/L	N/L	N/L	N/A	(1) For assessing the visibility in a work environment where 1,2-propylene glycol aerosol is present.
<b>GESTIS</b>	Ireland	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A
<b>GESTIS</b>	Latvia	N/L	7	N/L	N/L	N/L	N/L	N/A	N/A
<b>GESTIS</b>	Poland	N/L	100(1)	N/L	N/L	N/L	N/L	N/A	(1) Inhalable fraction

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

**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. **Thermal Hazards:** For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

**SPECIFIC ENGINEERING CONTROLS**

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

**BIOLOGICAL MONITORING**

Not available

**CONTROL BANDING**

Not available

**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

**PHYSICAL STATE**

Liquid

**DESCRIPTION**

Colorless to pale yellow liquid with characteristic odor.

**SOLUBILITY**

Soluble in water.

**ODOR**

Characteristic odor

**FLAMMABILITY**

Flammable liquid and vapor.

**AUTO-IGNITION TEMPERATURE**

Not available

**BOILING POINT**

Not available

**DECOMPOSITION TEMPERATURE**

Not available

**EVAPORATION RATE**

Not available

**EXPLOSIVE LIMIT**

Not available

**FLASH POINT**

42 °C, 107.6 °F

**log P (OCTANOL-WATER)**

Not available

**LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)**

2.6 (v/v) %

**MELTING/FREEZING POINT**

Not available

**PARTICLE CHARACTERISTICS**

Not available

**OXIDIZING PROPERTY**

Not available

**pH**

Not available

**RELATIVE DENSITY (WATER = 1)**

Not available

**SPECIFIC GRAVITY**

1.000 - 1.040 (25°C)

**UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)**

12.6 (v/v) %

**VAPOR DENSITY (AIR = 1)**

Not available

**VAPOR PRESSURE**

0.1 hPa (20°C)

**VISCOSITY**

Not available

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>CHEMICAL STABILITY</b>	Stable under recommended storage conditions.
<b>INCOMPATIBLE MATERIALS</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
<b>CONDITIONS TO AVOID</b>	Moisture, sunlight and extreme temperatures. Heat and sources of ignition.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	Oral: Rat: LD50: (mg/kg): Not available Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available								
<b>SKIN CORROSION/IRRITATION</b>	Based on available data, the classification criteria are not met. Contains ingredients (ETHANOL, (R)-P-MENTHA-1,8-DIENE ((D)-Limonene), BENZYL ACETATE and FURFURAL) causes skin irritation.								
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Based on available data, the classification criteria are not met. Contains ingredients (ETHANOL and FURFURAL) causes eye irritation.								
<b>RESPIRATORY SENSITIZATION</b>	Due to lack of data the classification is not possible.								
<b>SKIN SENSITIZATION</b>	Based on available data, the classification criteria are not met. (R)-P-MENTHA-1,8-DIENE ((D)-Limonene) is on the EU list of 26 substances that are considered skin allergens. May cause an allergic skin reaction.								
<b>GERM CELL MUTAGENICITY</b>	Based on available data, the classification criteria are not met.								
<b>CARCINOGENICITY</b>	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"><b>OSHA</b></td> <td>ETHANOL is listed. BENZYL ACETATE is listed. (R)-P-MENTHA-1,8-DIENE ((D)-Limonene) is listed. FURFURAL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.</td> </tr> <tr> <td style="vertical-align: top;"><b>NTP</b></td> <td>ETHANOL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.</td> </tr> <tr> <td style="vertical-align: top;"><b>IARC</b></td> <td>ETHANOL is listed in group 1 (carcinogenic to humans). (R)-P-MENTHA-1,8-DIENE is listed in group 3 (not classifiable as to its carcinogenicity to humans). BENZYL ACETATE is listed in group 3 (not classifiable as to its carcinogenicity to humans). FURFURAL 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.</td> </tr> <tr> <td style="vertical-align: top;"><b>California Proposition</b></td> <td>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.</td> </tr> </table>	<b>OSHA</b>	ETHANOL is listed. BENZYL ACETATE is listed. (R)-P-MENTHA-1,8-DIENE ((D)-Limonene) is listed. FURFURAL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.	<b>NTP</b>	ETHANOL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.	<b>IARC</b>	ETHANOL is listed in group 1 (carcinogenic to humans). (R)-P-MENTHA-1,8-DIENE is listed in group 3 (not classifiable as to its carcinogenicity to humans). BENZYL ACETATE is listed in group 3 (not classifiable as to its carcinogenicity to humans). FURFURAL 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.	<b>California Proposition</b>	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.
<b>OSHA</b>	ETHANOL is listed. BENZYL ACETATE is listed. (R)-P-MENTHA-1,8-DIENE ((D)-Limonene) is listed. FURFURAL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.								
<b>NTP</b>	ETHANOL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.								
<b>IARC</b>	ETHANOL is listed in group 1 (carcinogenic to humans). (R)-P-MENTHA-1,8-DIENE is listed in group 3 (not classifiable as to its carcinogenicity to humans). BENZYL ACETATE is listed in group 3 (not classifiable as to its carcinogenicity to humans). FURFURAL 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.								
<b>California Proposition</b>	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**
**ROUTES OF EXPOSURE:**

Oral, Dermal, Inhalation, Eye contact

**EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:**

Not available

**DELAYED HEALTH EFFECT FROM EXPOSURE:**

Not available

Not expected to present a significant hazard under anticipated conditions of normal use.

**POTENTIAL HEALTH EFFECTS**
**Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion**

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

**ECOTOXICITY**

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

**PERSISTENCE AND DEGRADABILITY**

Not available

**BIOACCUMULATIVE POTENTIAL**

Not available

**MOBILITY IN SOIL**

Water hazard class 3: extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Soluble in water.

**OTHER ADVERSE EFFECTS**

Not available

This product is not intended to be released into the environment

## SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

## SECTION 14: TRANSPORT INFORMATION

**UN PROPER SHIPPING NAME**

EXTRACTS, FLAVORING, LIQUID

UN NUMBER 1197  
 CLASS 3  
 PACKING GROUP III

**AUSTRALIA**

HAZCHEM 3Y

**EU**

TRANSPORT IN BULK ACCORDING  
 TO ANNEX II OF MARPOL 73/78  
 AND THE IBC CODE Not Listed

ENVIRONMENTAL HAZARDS Not available

SPECIAL SHIPPING INFORMATION Not applicable

**SECTION 15: REGULATORY INFORMATION**
**UNITED STATES REGULATIONS**

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR	EPA 40 CFR Part 355		Pennsylvania	Right-to-know			California Prop 65
			Appendix A	Appendix B		New Jersey	Massachusetts		
(R)-P-MENTHA-1,8-DIENE 5989-27-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L
BENZYL ACETATE 140-11-4	N/L	N/L	N/L	N/L	N/L	X	N/L	N/L	N/L
PROPYLENE GLYCOL 57-55-6	N/L	N/L	N/L	N/L	X	X	N/L	N/L	N/L
ETHANOL 64-17-5	N/L	N/L	N/L	N/L	X	X	X	X	X
ISOBUTYL ACETATE 110-19-0	X	N/L	N/L	N/L	X	X	X	X	N/L
FURFURAL 98-01-1	X	N/L	N/L	N/L	X	X	X	X	N/L

N/L = Not Listed; X = Listed

**AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemicals
(R)-P-MENTHA-1,8-DIENE 5989-27-5	N/L	N/L	N/L	N/L	N/L	N/L
BENZYL ACETATE 140-11-4	N/L	N/L	N/L	N/L	N/L	N/L
PROPYLENE GLYCOL 57-55-6	N/L	N/L	N/L	N/L	N/L	N/L
ETHANOL 64-17-5	N/L	N/L	Listed as Category III	N/L	N/L	N/L
ISOBUTYL ACETATE 110-19-0	N/L	N/L	N/L	N/L	N/L	N/L
FURFURAL 98-01-1	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

**EU REGULATIONS**

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
(R)-P-MENTHA-1,8-DIENE 5989-27-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L
BENZYL ACETATE 140-11-4	N/L	N/L	N/L	N/L	N/L	N/L	N/L
PROPYLENE GLYCOL 57-55-6	N/L	N/L	N/L	N/L	N/L	N/L	N/L
ETHANOL 64-17-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L
ISOBUTYL ACETATE 110-19-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L
FURFURAL 98-01-1	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL AGREEMENT Not applicable

**SECTION 16: OTHER INFORMATION**
**REFERENCES**
**ABBREVIATIONS AND ACRONYMS**

Available upon request

**ACGIH** - American Conference of Governmental Industrial Hygienists; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **CAESAR** – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; **CAS** – Chemical Abstract Service; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **EC50** – Effective Concentration, 50%; **EPA** – Environmental Protection Agency; **GHS** – Global Harmonized System; **HMIS** – Hazardous Materials Information System; **HSE** – Health and Safety Executive; **HSIS** – Hazardous Substances Information System; **IARC** – International Agency for Research on Cancer; **IDLH** - Immediately Dangerous to Life or Health; **IRFMN** – Ready Biodegradability Model; **ISS** – Istituto Superiore Sanità; **LC50** – Lethal Concentration, 50%; **LD50** – Lethal Dose, 50%; **MSHA** - Mine Safety and Health Administration; **NIOSH** – National Institute for Occupational Safety and Health; **NTP** – National Toxicology Program; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **QSAR** – Quantitative Structure-activity relationship; **REL** - Recommended Exposure Limit; **SARA** – Superfund Amendments and Reauthorization Act; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TWA** – Time Weighted Average; **WHMIS** – Workplace Hazardous Materials Information System

**LAST REVISION**

06/2023

**SUPERSEDES**

03/2019

For a list of changes to the SDS since the last version, please communicate with MEDISCA at [www.medisca.com](http://www.medisca.com)

**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.

**SUPPLEMENTARY INFORMATION**

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.