


SECTION 1: PRODUCT IDENTIFICATION

| | |
|----------------------------|--|
| PRODUCT NAME | BANANA FLAVOR (Liquid) (FlavoRx) |
| PRODUCT CODE | 2977 |
| SUPPLIER | MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. 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 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020 |
| EMERGENCY PHONE | 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 |
| RECOMMENDED USES | Manufacturing and Compounding |
| RESTRICTIONS ON USE | Not applicable |

SECTION 2: HAZARDS IDENTIFICATION

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| GHS CLASSIFICATION | Flammable Liquid (Category 3) |
| PICTOGRAM |  |
| SIGNAL WORD | Warning |
| HAZARD STATEMENT(S) | Flammable liquid and vapor. Causes irritation to skin, eyes and respiratory tract. May cause an allergic reaction. Limited evidence of a carcinogenic effect. |
| ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS | Repeated exposure may cause skin dryness or cracking. |

PRECAUTIONARY STATEMENT(S)

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| Prevention | 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 thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace. |
| Response | IF ON SKIN (HAIR): Take off immediately all contaminated clothing. Rinse affected areas with water/shower. 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 ₂ , alcohol resistant foam or water spray to extinguish |
| Storage | Store in a well-ventilated place. Keep cool. |
| Disposal | Dispose of contents and/or container in accordance with local regulations. |

HMIS CLASSIFICATION

| | | | |
|----------------------|---|----------------------------|---|
| Health Hazard | 2 | Flammability | 3 |
| Reactivity | 0 | Personal Protection | E |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|-----------------------------|----------------|
| CHEMICAL NAME | Not applicable |
| BOTANICAL NAME | Not applicable |
| SYNONYM | Not applicable |
| CHEMICAL FORMULA | Not applicable |
| CHEMICAL FAMILY | Not applicable |
| CAS NUMBER | Not applicable |
| ALTERNATE CAS NUMBER | Not applicable |
| MOLECULAR WEIGHT | Not applicable |

| COMPOSITION | CHEMICAL NAME | CAS NUMBER | EC NUMBER | % BY WEIGHT |
|-------------|------------------|------------|-----------|--------------|
| | ETHANOL | 64-17-5 | 200-578-6 | 10 - 25 |
| | EUGENOL | 97-53-0 | 202-589-1 | proprietary* |
| | FURFURAL | 98-01-1 | 202-627-7 | < 2 |
| | ISOAMYL ACETATE | 123-92-2 | 204-662-3 | 5 - 10 |
| | PROPYLENE GLYCOL | 57-55-6 | 200-338-0 | 50 - 75 |

NOTES

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.

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

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| 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

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| 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 ₂ or water spray. Large fire: dry chemical, CO ₂ , 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: ETHANOL CAS #: 64-17-5

| | Country | Limit value-8 hours | | Limit value-Short Term | | IDLH | REL | Advisory | Notes |
|--------|----------------|---------------------|-------------------|------------------------|-------------------|------|-----|----------|---|
| | | ppm | mg/m ³ | ppm | mg/m ³ | | | | |
| OSHA | USA | 1000 | 1900 | 2000 | 3800 | N/L | N/L | N/A | N/A |
| ACGIH | USA | N/L | N/L | 1000 | N/L | N/L | N/L | N/A | A4 (not classifiable as a human carcinogen) |
| NIOSH | USA | 1000 | 1900 | N/L | 3300* | N/L | N/L | N/A | *10%LEL (See:64175) |
| WEEL | USA | N/L | N/L | N/L | N/L | N/L | N/L | N/A | N/A |
| HSIS | Australia | 1000 | 1800 | 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 | N/L | N/L | 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 | 1000 | 1880 | N/L | N/L | N/L | N/L | N/A | N/A |
| 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 | 7600 | N/L | N/L | N/A | N/A |
| GESTIS | Ireland | N/L | N/L | 1000(1) | N/L | N/L | N/L | N/A | (1) 15 minutes average value |
| 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 | 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 Korea | 1000 | 1900 | 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 |
| GESTIS | Netherlands | N/L | 260 | 1900 | N/L | N/L | N/L | N/A | N/A |

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

| | Country | Limit value-8 hours | | Limit value-Short Term | | IDLH | REL | Advisory | Notes |
|---------------|-------------|---------------------|-------------------|------------------------|-------------------|------|-----|----------|-------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | | | | |
| 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 | Add Country | N/L | N/L | N/L | N/L | N/L | N/L | N/A | N/A |

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

| | Country | Limit value-8 hours | | Limit value-Short Term | | IDLH | REL | Advisory | Notes |
|--------|---------------------|---------------------|-------------------|------------------------|-------------------|------|-----|----------|---|
| | | ppm | mg/m ³ | ppm | mg/m ³ | | | | |
| 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(1) | 20(1) | 100 | N/L | N/L | N/L | N/A | (1) Skin |
| WEEL | USA | N/L | N/L | N/L | N/L | N/L | N/L | N/A | N/A |
| HSIS | Australia | 2 | 7.9 | N/L | N/L | N/L | N/L | N/A | Skin |
| HSE | UK | 2(1) | 8(1) | 5(1)(2) | 20 | N/L | N/L | N/A | (1) Skin (2) 15 minutes average value |
| GESTIS | Austria | 5 | 20 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Belgium | 2(1) | 8.0(1) | N/L | N/L | N/L | N/L | N/A | (1) 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 | N/L | N/L | 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 |
| GESTIS | Spain | 2 | 8 | N/L | N/L | N/L | N/L | N/A | Skin |

| | | | | | | | | | |
|---------------|-------------|---|---|------|-------|-----|-----|-----|------------------------------|
| GESTIS | Sweden | 2 | 8 | 5(1) | 20(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Switzerland | 2 | 8 | N/L | N/L | N/L | N/L | N/A | N/A |

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

| | Country | Limit value-8 hours | | Limit value-Short Term | | IDLH | REL | Advisory | Notes |
|--------|----------------|---------------------|-------------------|------------------------|-------------------|------|-----|----------|--|
| | | ppm | mg/m ³ | ppm | mg/m ³ | | | | |
| OSHA | USA | 100 | 525 | N/L | N/L | N/L | N/L | N/A | N/A |
| ACGIH | USA | 50 | N/L | 100 | N/L | N/L | N/L | N/A | N/A |
| NIOSH | USA | 100 | 525 | N/L | N/L | 1000 | 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 | 50 | 270 | 100 | 541 | 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 | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Canada-Ontario | 50 | N/L | 100 | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Canada-Quebec | 50 | N/L | 100(1) | N/L | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Denmark | 50 | 271 | 100(1) | 532(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | European Union | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value; Indicative Occupational Exposure Limit Value (IOELV) |
| GESTIS | Finland | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | France | 50 | 270 | 100 | 540 | N/L | N/L | N/A | N/A |
| GESTIS | Germany (AGS) | 50 | 270 | 50(1) | 270(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Germany (DFG) | 50 | 270 | 50(1) | 270(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Hungary | N/L | 270 | N/L | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Ireland | 50 | 260 | 100(1) | 520(1) | N/L | N/L | N/A | (1) 15 minutes reference period |
| GESTIS | Italy | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes reference period |
| GESTIS | Japan (MHLW) | 50 | N/L | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Japan (JSOH) | 50 100(1) | 266.3 532.5(1) | N/L | N/L | N/L | N/L | N/A | (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day |
| GESTIS | Latvia | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | New Zealand | 100 | 532 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Norway | 50 | 260 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Poland | N/L | 250 | N/L | 500(1) | N/L | N/L | N/A | (1) 15 minutes average value |

| | | | | | | | | | |
|---------------|---------------------|-----|-----|---------|--------|-----|-----|-----|------------------------------|
| GESTIS | Romania | 50 | 270 | 100(1) | 525(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Singapore | 100 | 532 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | South Africa | 100 | N/L | 200(1) | N/L | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | South Africa Mining | 50 | 262 | 100(1) | 525(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | South Korea | 50 | N/L | 100(1) | N/L | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Spain | 50 | 270 | 100(1) | 540(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Sweden | 100 | 500 | 150 | 800 | N/L | N/L | N/A | N/A |
| GESTIS | Switzerland | 50 | 260 | 50 | 260 | N/L | N/L | N/A | N/A |
| GESTIS | The Netherlands | N/L | N/L | 98.1(1) | 530(1) | N/L | N/L | N/A | (1) 15 minutes average value |
| GESTIS | Turkey | 50 | 270 | 100(1) | 540(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 ³ | ppm | mg/m ³ | | | | |
| 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 | 10 | N/L | N/L | N/L | N/L | N/A | N/A |
| HSE | UK | N/L | 10 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Ireland | N/L | 10 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Latvia | N/L | 7 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | Poland | N/L | 100(1) | N/L | N/L | N/L | N/L | N/A | (1) Inhalable fraction |
| GESTIS | South Africa Mining | N/L | 10 | N/L | N/L | N/L | N/L | N/A | N/A |
| GESTIS | 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. |
| GESTIS | Add Country | N/L | N/L | N/L | N/L | N/L | N/L | N/A | N/A |

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/m³.

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|--------------------------------------|--|
| 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 | 31 °C, 87.8 °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 | 0.9700 - 1.0100 (25°C) | UPPER FLAMMABLE/EXPLOSIVE LIMIT(S) | 15.0 (v/v) % |
| VAPOR DENSITY (AIR = 1) | Not available | VAPOR PRESSURE | 59 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

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|-------------------------------|--|
| REACTIVITY | Not established |
| CHEMICAL STABILITY | Stable under recommended storage conditions. |
| INCOMPATIBLE MATERIALS | Strong oxidants. |

| | |
|--|--|
| HAZARDOUS DECOMPOSITION PRODUCTS | Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| POSSIBILITY OF HAZARDOUS REACTION | Not established |
| CONDITIONS TO AVOID | Moisture, sunlight and extreme temperatures. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---|---|
| ACUTE TOXICITY | <p>Oral: Rat: LD50: (mg/kg): Not available Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available</p> |
| SKIN CORROSION/IRRITATION | <p>Based on available data, the classification criteria are not met. Contains ingredients (ETHANOL and FURFURAL) causes skin irritation.</p> |
| SERIOUS EYE DAMAGE/EYE IRRITATION | <p>Based on available data, the classification criteria are not met. Contains ingredients (ETHANOL, FURFURAL and EUGENOL) causes eye irritation.</p> |
| RESPIRATORY SENSITIZATION | <p>Due to lack of data the classification is not possible.</p> |
| SKIN SENSITIZATION | <p>May cause an allergic skin reaction. EUGENOL is on the EU list of 26 skin allergens in fragrances.</p> |
| GERM CELL MUTAGENICITY | <p>Based on available data, the classification criteria are not met.</p> |
| CARCINOGENICITY | <p>OSHA ETHANOL is listed. FURFURAL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.</p> <p>NTP ETHANOL is listed. Based on the compositional information available from the supplier, no other component of this product is listed.</p> <p>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.</p> <p>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.</p> |
| ADDITIONAL CARCINOGENICITY INFORMATION | <p>Based on available data, the classification criteria are not met.</p> |
| REPRODUCTIVE TOXICITY | <p>Based on available data, the classification criteria are not met.</p> |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | <p>Due to lack of data the classification is not possible.</p> |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | <p>Due to lack of data the classification is not possible.</p> |
| ASPIRATION HAZARDS | <p>Due to lack of data the classification is not possible.</p> |

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

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
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

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, FLAVOURING, 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 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 | Therapeutic Goods Act | Code of Practices - Illicit Drug Precursors | Poisons Standard | Work Health and Safety Regulations | Inventory of Industrial Chemicals |
|--------------------------|-------------------------------|-----------------------|---|------------------|------------------------------------|-----------------------------------|
| ETHANOL 64-17-5 | N/L | N/L | N/L | N/L | N/L | N/L |
| ISOAMYL ACETATE 123-92-2 | 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 |
| FURFURAL 98-01-1 | N/L | N/L | N/L | N/L | N/L | N/L |
| EUGENOL 97-53-0 | 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 |
|--------------------------|------------------|-----------------|--------------|-------------|--------------|---|------------|
| ETHANOL 64-17-5 | N/L | N/L | N/L | N/L | N/L | N/L | N/L |
| ISOAMYL ACETATE 123-92-2 | 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 |
| FURFURAL 98-01-1 | N/L | N/L | N/L | N/L | N/L | N/L | N/L |
| EUGENOL 97-53-0 | 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

Available upon request

ABBREVIATIONS AND ACRONYMS

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

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.