

### 502804 JASMIN 231

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1. IDENTIFICATION

Product Description: JASMIN 231
CAS # MIXTURE

Other means of identification

Vigon Item # 502804

Recommended use Concentrated aromatic ingredient which may be used fragrance compounds according to legal and

IFRA guidelines.

Recommended restrictions For Manufacturing Use Only

<u>Company</u> <u>24 Hour Emergency Response Information</u>

Vigon International, Inc. INFOTRAC (ACCT# 78928);

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A.

E. Stroudsburg, PA 18301

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Vigon International, Inc.

Address 127 Airport Road

E. Stroudsburg, PA 18301

**United States** 

**Telephone** For information call: 570-476-6300

Website www.vigon.com
E-mail Not available.

Emergency phone number INFOTRAC (ACCT# 78928);

1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazardsFlammable liquidsCategory 4Health hazardsSerious eye damage/eye irritationCategory 1

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1

Reproductive toxicity Category 2

Environmental hazards Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements



Signal word Danger



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Hazard statement Combustible liquid. May cause an allergic skin reaction. Causes serious eye damage. Suspected

of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

Response IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish.

Storage Store in a well-ventilated place. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

otherwise None known.

Supplemental information None.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixtures**

| Chemical name        | Common name and synonyms   | CAS number | %         |
|----------------------|--|------------|-----------|
| BENZYL ACETATE       | PHENYL METHYL ACETATE a-acetoxytoluene benzenemethanol acetate benzenemethanol ethanoate benzyl ethanoate        | 140-11-4   | 20 - < 30 |
| HYDROXYCITRONELLAL   | 7-HYDROXY-3,7-DIMETHYL-OCTANAL<br>HYDROXYCITRONELLAL<br>Octanal, 7-hydroxy-3,7-dimethyl-<br>HYDROXY-CITRONELLAL  | 107-75-5   | 20 - < 30 |
| PHENYL ETHYL ALCOHOL | BENZYL CARBINOL<br>2-Phenylethanol   | 60-12-8    | 10 - < 15 |
| BENZYL ALCOHOL       | ALPHA-HYDROXYTOLUENE PHENYLCARBINOL PHENYLMETHANOL ALPHA-TOLUENOL Benzenemethanol phenylmethanol Benzyl carbinol | 100-51-6   | 5 - < 7.5 |
| CINNAMIC ALCOHOL     | 3-PHENYL-2-PROPEN-1-OL<br>STYRYL CARBINOL<br>1- phenyl prop-1-en-3-ol  | 104-54-1   | 5 - < 7.5 |

3- phenyl allyl alcohol



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| Chemical name            | Common name and synonyms   | CAS number | %         |
|--------------------------|--|------------|-----------|
| PHENYL ETHYL ACETATE     | benzyl carbinyl acetate<br>beta- phenyl ethyl acetate<br>phenethyl ethanoate<br>2-PHENYLETHYL ACETATE  | 103-45-7   | 5 - < 7.5 |
| LINALOOL                 | 2,6-DIMETHYL-2,7-OCTADIENE-6-OL<br>1,6-Octadien-3-ol, 3,7-dimethyl-<br>3,7-Dimethylocta-1,6-dien-3-ol<br>LINALYL ALCOHOL   | 78-70-6    | 2.5 - < 5 |
| GERANIOL                 | 3,7-DIMETHYL-2,6-OCTADIEN-1-OL<br>(2E)-3,7- dimethylocta-2,6-dien-1-ol<br>LEMONOL<br>GERANYL ALCOHOL   | 106-24-1   | 1 - < 2.5 |
| BENZYL BENZOATE          | benzyl benzene carboxylate<br>phenyl methyl benzoate<br>BENZYL PHENYL FORMATE  | 120-51-4   | 0.1< 0.5  |
| CITRONELLOL              | 3,7-DIMETHYL-6-OCTEN-1-OL<br>6-Octen-1-ol, 3,7-dimethyl-<br>2,6- dimethyl-2-octen-8-ol   | 106-22-9   | 0.1< 0.5  |
| CRESOL PARA              | PARA-CRESYLIC ACID 1-Hydroxy-4-methylbenzene METHYL PHENOL (CRESOL, CRESYLIC ACID) p-METHYLHYDROXYBENZENE P-CRESYLIC ACID 4-Hydroxytoluene PARAMETHYL PHENOL 4-METHYL PHENOL | 106-44-5   | 0.1< 0.5  |
| CRESYL METHYL ETHER PARA | 1- methoxy-4-methylbenzene METHYL P-CRESOL 4-Methylanisole methyl p-tolyl ether 4- methoxytoluene  | 104-93-8   | 0.1< 0.5  |
| DIPENTENE                | p- mentha-1,8-diene<br>D,L- limonene<br>1- methyl-4-prop-1-en-2-ylcyclohexene  | 138-86-3   | 0.1< 0.5  |
| GERANYL ACETATE          | geranyl ethanoate 2,6-DIMETHYL-2,6-OCTADIENE-8-YL ACETATE 3,7-DIMETHYL-2-TRANS-6-OCTADIENY L ACETATE [(2E)-3,7- dimethylocta-2,6-dienyl] acetate                             | 105-87-3   | 0.1< 0.5  |
| NEROL                    | (2Z)-3,7- dimethylocta-2,6-dien-1-ol   | 106-25-2   | 0.1< 0.5  |



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| Chemical name   | Common name and synonyms  | CAS number | %         |
|---|---|------------|-----------|
| CINNAMIC ALDEHYDE   | CINNAMAL 3- phenylprop-2-enal PHENYL ACROLEIN benzylidene acetaldehyde 3- phenyl acryl aldehyde | 104-55-2   | 0< 0.1    |
| ISOEUGENOL  2- methoxy-4-prop-1-en-2-ylphenol 2-Methoxy-4-(1-propenyl)phenol; 4-Hydroxy-3-methoxy-1-propenylbenzene , Isoeugenol Phenol, 2-methoxy-4-(1-propen-1-yl)- |   | 97-54-1    | 0< 0.1    |
| Other components below reportable levels  |   |            | 10 - < 20 |

### 4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or

persist.

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and

persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and

persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin

so that stomach vomit doesn't enter the lungs.

Most important

symptoms/effects, acute and

delaved

Indication of immediate medical attention and special treatment

needed

General information

Not available.

reaction. Dermatitis. Rash.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Do not use a solid water stream as it may scatter and spread fire.

Unsuitable extinguishing media Specific hazards arising from

the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full

facepiece operated in the positive pressure demand mode when fighting fires.

Fire fighting

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and equipment/instructions consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.



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**Specific methods**Use water spray to cool unopened containers.

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

**Environmental precautions** 

Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components       | Туре | Value    |
|------------------|------|----------|
| CRESOL PARA (CAS | PEL  | 22 mg/m3 |
| 106-44-5)        |      |          |

5 ppm



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| LIS | ACGIH | Threshold | Limit Values |
|-----|-------|-----------|--------------|
|     |       |           |              |

| Components                       | Туре                      | Value       | Form                          |
|----------------------------------|---------------------------|-------------|-------------------------------|
| BENZYL ACETATE (CAS 140-11-4)    | TWA                       | 10 ppm      |                               |
| CRESOL PARA (CAS<br>106-44-5)    | TWA                       | 20 mg/m3    | Inhalable fraction and vapor. |
| US. NIOSH: Pocket Guide to Chem  | ical Hazards              |             |                               |
| Components                       | Туре                      | Value       |                               |
| CRESOL PARA (CAS                 | REL                       | 10 mg/m3    |                               |
| 106-44-5)                        |                           |             |                               |
|                                  |                           | 2.3 ppm     |                               |
|                                  | TWA                       | 10 mg/m3    |                               |
|                                  |                           | 2.3 ppm     |                               |
| US. Workplace Environmental Expo | osure Level (WEEL) Guides |             |                               |
| Components                       | Туре                      | Value       |                               |
| BENZYL ALCOHOL (CAS<br>100-51-6) | TWA                       | 44.2 mg/m3  |                               |
|                                  |                           | 10 ppm      |                               |
| DIPENTENE (CAS                   | TWA                       | 165.5 mg/m3 |                               |

138-86-3) 30 ppm

No biological exposure limits noted for the ingredient(s). Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation Appropriate engineering controls

should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes.

Skin protection

**Biological limit values** 

Hand protection Chemical resistant gloves.

Other Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Observe any medical surveillance requirements. When using do not smoke. Always observe good General hygiene considerations

> personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Refer to Spec Sheet

Physical state Liquid. **Form** Liquid.

Color Refer to Spec Sheet

Odor Characteristic.



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Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and boiling

range

Not available.

Flash point 196.0 °F (91.1 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 0.1 mm Hg at 20°C

Vapor density Not available.

Relative density 1 at d 20/20

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties** Not explosive.

Flammability class Combustible IIIA estimated

Oxidizing properties Not oxidizing.

VOC < 32 %

### 10. STABILITY AND REACTIVITY

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products if stored and handled as indicated.



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#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

Eye contact Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin

toxicological characteristics reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Components Species Test Results

BENZYL ACETATE (CAS 140-11-4)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

BENZYL ALCOHOL (CAS 100-51-6)

Acute

Inhalation

LC50 Rat 11 mg/l, 8 Hours

BENZYL BENZOATE (CAS 120-51-4)

Acute

Dermal

LD50 Rat 4000 mg/kg

CINNAMIC ALCOHOL (CAS 104-54-1)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat 2000 mg/kg

CINNAMIC ALDEHYDE (CAS 104-55-2)

Acute

Dermal

LD50 Rabbit 0.59 ml/kg

Oral

LD50 Rat 2200 mg/kg



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| Q                                | Outsiles              | Total Donalds  |
|----------------------------------|-----------------------|--|
| Components CITRONELLOL (CAS 106- | Species               | Test Results   |
| Acute                            | 22-9)                 |  |
| Dermal Dermal                    |                       |  |
| LD50                             | Rabbit                | 2650 mg/kg   |
| Oral                             |                       | 3 3  |
| LD50                             | Rat                   | 3450 mg/kg   |
| CRESOL PARA (CAS 106-            | -44-5)                | • •  |
| Acute                            | ,                     |  |
| Dermal                           |                       |  |
| LD50                             | Rabbit                | 301 mg/kg  |
| Inhalation                       |                       |  |
| LC50                             | Rat                   | > 710 mg/m3, 1 hours   |
| Oral                             |                       |  |
| LD50                             | Rat                   | 207 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Ulceration or bleeding from stomach. |
| CRESYL METHYL ETHER              | R PARA (CAS 104-93-8) |  |
| Acute                            |                       |  |
| Dermal                           |                       |  |
| LD50                             | Rabbit                | > 4850 mg/kg (OECD Test Guideline 402)   |
| Oral                             |                       |  |
| LD50                             | Rat                   | 1920 mg/kg (OECD Test Guideline 401)   |
| DIPENTENE (CAS 138-86            | -3)                   |  |
| Acute                            |                       |  |
| <i>Dermal</i>                    |                       |  |
| LD50                             | Rabbit                | 5 g/kg   |
| Oral                             |                       |  |
| LD50                             | Rat                   | 5 g/kg   |
| GERANIOL (CAS 106-24-1           | 1)                    |  |
| Acute                            |                       |  |
| <i>Dermal</i><br>LD50            | Rabbit                | > 5000 mg/kg   |
|                                  | Nabbit                | > 5000 Hig/kg  |
| <i>Oral</i><br>LD50              | Rat                   | 3600 mg/kg   |
| LDJU                             | Nat                   | oooo mg/kg   |



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| Components                | Species                        | Test Results   |  |  |
|---------------------------|--------------------------------|--|--|--|
| HYDROXYCITRONELLAL (      | CAS 107-75-5)                  |  |  |  |
| Acute                     |                                |  |  |  |
| Dermal                    |                                |  |  |  |
| LD50                      | Rabbit                         | > 2000 mg/kg OECD 402: limit                           |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | > 5000 mg/kg OECD 401: limit                           |  |  |
| SOEUGENOL (CAS 97-54-     | -1)                            |  |  |  |
| Acute                     |                                |  |  |  |
| Dermal                    |                                |  |  |  |
| LD50                      | Rabbit                         | 1900 mg/kg   |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | 1560 mg/kg   |  |  |
| INALOOL (CAS 78-70-6)     |                                |  |  |  |
| Acute                     |                                |  |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | 2790 mg/kg   |  |  |
| NEROL (CAS 106-25-2)      |                                |  |  |  |
| Acute                     |                                |  |  |  |
| Dermal                    |                                |  |  |  |
| LD50                      | Rabbit                         | > 5000 mg/kg   |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | 4500 mg/kg   |  |  |
| PHENYL ETHYL ACETATE      | (CAS 103-45-7)                 |  |  |  |
| Acute                     |                                |  |  |  |
| Dermal                    |                                |  |  |  |
| LD50                      | Rabbit                         | 6210 mg/kg   |  |  |
| Inhalation                |                                |  |  |  |
| LC50                      | Rat                            | > 500 mg/m3  |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | 5000 mg/kg   |  |  |
| PHENYL ETHYL ALCOHOL      | _ (CAS 60-12-8)                |  |  |  |
| Acute                     |                                |  |  |  |
| Dermal                    |                                |  |  |  |
| LD50                      | Rabbit                         | 2500 mg/kg   |  |  |
| Oral                      |                                |  |  |  |
| LD50                      | Rat                            | 1610 mg/kg   |  |  |
| Skin corrosion/irritation | Prolonged skin contact may cau | Prolonged skin contact may cause temporary irritation. |  |  |



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Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

Further information This mixture has not been subjected to full toxicological testing. According to available data on the

constituents the health classification criteria are met.

12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects. This mixture has not been subjected to

ecotoxicological testing as an entity. According to available data on the constituents the

environmental classification criteria are met.

Components Species Test Results

BENZYL ACETATE (CAS 140-11-4)

Aquatic

Fish LC50 Medaka, high-eyes (Oryzias latipes) > 3.48 - < 4.6 mg/l, 96 hours

BENZYL ALCOHOL (CAS 100-51-6)

Aquatic

Crustacea EC50 Daphnia magna 55 mg/l, 24 hours
Fish LC50 Bluegill (Lepomis macrochirus) 10 mg/l, 96 hours

Fathead minnow (Pimephales promelas) 460 mg/l, 96 hours



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| Components        |                 | Species   | Test Results   |
|-------------------|-----------------|---|--|
| CITRONELLOL (CAS  | 106-22-9)       |   |  |
| Aquatic           |                 |   |  |
| Acute             |                 |   |  |
| Algae             | EC50            | Algae   | 2.4 mg/l, 72 hours   |
| Crustacea         | EC50            | Daphnia   | 17 mg/l, 48 hours  |
| Fish              | LC50            | Leuciscus idus (Golden orfe)                        | > 10 - < 22 mg/l, 96 hours   |
| CRESOL PARA (CAS  | 106-44-5)       |   |  |
| Aquatic           |                 |   |  |
| Crustacea         | LC50            | Water flea (Daphnia magna)                          | 1.4 mg/l, 48 hours   |
| Fish              | LC50            | Fish (Lepidocephalichthyes guntea)                  | > 16.42 - < 26.86 mg/l, 24 hours                                     |
|                   |                 | Oncorhynchus mykiss (reported as Salmo gairdneri)   | 7.9 mg/l, 96 hours   |
| CRESYL METHYL ET  | HER PARA (CAS 1 | 104-93-8)   |  |
| Aquatic           |                 |   |  |
| Acute             |                 |   |  |
| Algae             | EC50            | Algae   | 320 mg/l, 72 hours   |
|                   |                 | Green algae (Desmodesmus subspicatus)               | 500 mg/l, 72 hours   |
| Crustacea         | EC50            | Water flea (Daphnia obtusa)                         | 27 mg/l, 48 hours (OECD Test Guideline 202)(OECD Test Guideline 202) |
| Fish              | LC50            | Leuciscus idus (Golden orfe)                        | 68.2 mg/l, 96 hours  |
| Other             | EC50            | Bacterium   | 5300 mg/l, 0.5 hours   |
| DIPENTENE (CAS 13 | 8-86-3)         |   |  |
| Aquatic           |                 |   |  |
| Fish              | LC50            | Carp (Leuciscus idus melanotus)                     | 34 mg/l, 48 hours  |
| GERANIOL (CAS 106 | -24-1)          |   |  |
| Other             | EC50            | Activated sludge of a predominantly domestic sewage | 70 mg/l, 0.5 hours   |
| Aquatic           |                 |   |  |
| Algae             | EC50            | Green algae (Desmodesmus subspicatus)               | 13.1 mg/l, 72 hours  |
| Crustacea         | EC50            | Daphnia magna                                       | 10.8 mg/l, 48 hours  |
| Fish              | LC50            | Danio rerio   | 22 mg/l, 96 hours  |
|                   |                 | Fathead minnow (Pimephales promelas                 | s) > 2.7 - < 3.8 mg/l, 96 hours                                      |
|                   |                 | ` · · ·   | =  |



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| Components                  |              | Species   | Test Results   |
|-----------------------------|--------------|---|--|
| GERANYL ACETATE (CA         | AS 105-87-3) |   |  |
| Aquatic                     |              |   |  |
| Algae                       | EC50         | Green algae (Chlamydomonas variabilis)              | 3.72 mg/l, 72 hours OECD Guideline<br>201 static. The statement of the toxic<br>effect relates to the analytically<br>determined concentration.  |
| Crustacea                   | EC50         | Daphnia magna                                       | 14.1 mg/l, 48 hours Directive<br>84/449/EEC, C.2 static. The statement<br>of the toxic effect relates to the<br>analytically determined concentration.   |
| Fish                        | LC50         | Fish  | 68.12 mg/l, 96 hours Cyprinus carpio. OECD Guideline 203 static The product has not been tested. The statement has been derived from products of a similar structure or composition.   |
| Other                       | EC10         | Bacterium   | > 10000 mg/l, 0.5 hours DIN 38412 Part<br>27 (draft) aquatic. The statement of<br>the toxic effect relates to the analytically<br>determined concentration. The product<br>has low solubility in the test medium. A<br>aqueous solution prepared with<br>solubilizers has been tested. |
| LINALOOL (CAS 78-70-6)      | )            |   |  |
| Other                       | EC10         | Activated sludge of a predominantly domestic sewage | > 100 mg/l, 3 hours  |
| Aquatic                     |              |   |  |
| Algae                       | EC50         | Green algae (Chlamydomonas variabilis)              | 88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.   |
| Crustacea                   | EC50         | Daphnia magna                                       | 20 mg/l, 48 hours DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.  |
| Fish                        | LC50         | Ide, silver or golden orfe (Leuciscus idus)         | > 22 - < 46 mg/l, 96 hours DIN 38412<br>Part 15 static. The details of the toxic<br>effect related to the nominal<br>concentration.  |
|                             | LC50-R       | Fish  | 27.8 mg/l, 96 hours  |
| NEROL (CAS 106-25-2)  Acute |              |   |  |
| Algae                       | EC50         | Green algea (Pseudokirchneriella subcapitata)       | 9.54 mg/l, 72 hours  |



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| omponents |      | Species       | Test Results        |
|-----------|------|---------------|---------------------|
|           |      |               | 2.16 mg/l, 72 hours |
| Aquatic   |      |               |                     |
| Acute     |      |               |                     |
| Crustacea | EC50 | Daphnia magna | 32.4 mg/l, 48 hours |
| Fish      | LC50 | Danio rerio   | 20.3 mg/l, 96 hours |

#### Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

GERANIOL > 90 % OECD 301A (new version)(aerobic), activatied

sludge, domestic DOC reduction, Readily biodegradable

(according to OECD criteria)

Percent degradation (Aerobic biodegradation-ready)

LINALOOL > 60 - < 70 %, Readily biodegradable (according to OECD

criteria).

Result: OECD 301D; EEC 92/69, C4-E (aerobic)

Test Duration: 28 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZYL ACETATE 1.96
BENZYL ALCOHOL 1.1
BENZYL BENZOATE 3.97
CRESOL PARA 1.94
CRESYL METHYL ETHER PARA 2.66
DIPENTENE 4.232

LINALOOL 2.97, (OECD Guideline 107)

PHENYL ETHYL ALCOHOL 1.36

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions**Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code Not established.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.



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#### 14. TRANSPORT INFORMATION

**ADN** 

Not regulated as dangerous goods.

**ADR** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

DOT BULK

UN number NA1993

Proper shipping name COMBUSTIBLE LIQUID, N.O.S. (DIPENTENE, CRESYL METHYL ETHER PARA)

Hazard class Combustible liq

Packing group III

**Environmental hazards** 

Marine pollutantNoPackaging exceptions150Packaging bulk242Labels requiredNone

DOT

**NON-BULK** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

### 15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.



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SARA 311/312 Hazardous

Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

**categories** Serious eye damage or eye irritation

Respiratory or skin sensitization

Reproductive toxicity

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

 Issue date
 11-20-2015

 Revision date
 03-28-2018

Version # 04

HMIS® ratings Health: 3\*

Flammability: 2 Physical hazard: 0



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#### Revision information

IDENTIFICATION: Recommended restrictions HAZARD(S) IDENTIFICATION: Prevention HAZARD(S) IDENTIFICATION: Response

COMPOSITION/INFORMATION ON INGREDIENTS: Component information

EXPOSURE CONTROLS/PERSONAL PROTECTION: Appropriate engineering controls

Physical & Chemical Properties: Multiple Properties TOXICOLOGICAL INFORMATION: Carcinogenicity TOXICOLOGICAL INFORMATION: Inhalation

REGULATORY INFORMATION: California Proposition 65

OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: Reference

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Material Attributes & Uses; Experimental Data: Material Attributes