

FOGG TERPENES GREEN CRACK

Version # 01

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1. IDENTIFICATION

| Product Description: Recommended use | FOGG TERPENES GREEN CRACK |
|---|--|
| | Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines. |
| Recommended restrictions | For Manufacturing Use Only |

| 24 Hour Emergency Response Information | Web Site: |
|--|--------------------------|
| | www.foggflavors.com |
| INFOTRAC (ACCT# 78928); | Company: |
| 1-800-535-5053 WITHIN THE U.S.A. | Fogg Flavor Labs, LLC |
| 1-352-323-3500 OUTSIDE THE U.S.A. | 319 Newburyport Turnpike |
| | Rowley, MA 01969 |
| | 1-888-822-7364 |

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Fogg Flavor Labs, LLC 319 Newburyport Turnpike Rowley, MA 01969 United States

1-888-822-7364

| Emergency phone number | INFOTRAC (ACCT# 78928); |
|------------------------|-----------------------------------|
| | 1-800-535-5053 WITHIN THE U.S.A. |
| | 1-352-323-3500 OUTSIDE THE U.S.A. |
| E-mail | support@foggflavors.com |
| Website | www.foggflavors.com |



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2. HAZARD(S) IDENTIFICATION

| Physical hazards | Flammable liquids Category 3 |
|--|---------------------------------|
| Health hazards | Acute toxicity, oral Category 5 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Sensitization, skin | Category 1 |
| Aspiration hazard | Category 1 |
| Hazardous to the aquatic environment | nt, acute hazard |
| | Category 1 |
| Environmental hazards | |
| Hazardous to the aquatic environment, long-term hazard | |
| | Category 1 |

Label elements



Signal word Hazard statement Danger

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes skin and eye irritation. Causes serious eye irritation

Precautionary statement Prevention

> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly



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| | closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. |
| Storage Disposal | Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (H | HNOC) None known. |
| Supplemental information | 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. |



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|---------------|-------|
| 1,6- octadiene, 7-methyl-3-methylene3- methylene-7-methyl-1, 6-octadiene beta- geraniolene 7-methyl-3-methylideneocta-1,6-diene 2- methyl-6-methylene-2,7-octadiene | MYRCENE | 80-56-8 | 7.83 |
| (1R,4E,9S)-4,11,11-trimethyl8-methyliden ebicyclo[7.2.0]undec-4-ene | CARYOPHYLLENE BETA | 87-44-5 | 42.58 |
| alpha- caryophyllene 3, 7, 10- humulatriene a- humulene | HUMULENE | 6753-98-6 | 8.13 |
| 2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl3,7-Dimethylocta-1,6-dien-3-o I LINALYL ALCOHOL | LINALOOL | 78-70-6 | 35.17 |



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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 so that stomach vomit doesn't enter the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Not available.

General information

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.



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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

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

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 equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and 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.

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.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. 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.

Methods and materials for containment and cleaning up

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



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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. ACGIH Threshold Limit Values

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Skin protection Hand protection Chemical resistant gloves.

| Hand protection | Chemical resistant glove | |
|-----------------|--------------------------|--|
| Other | Not available. | |

Respiratory protection



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Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Colorless liquid | |
|--|------------------|--|
| Physical state | Liquid. | |
| Form | Liquid. | |
| Color | Colorless | |
| Odor | Characteristic. | |
| Odor threshold | Not available. | |
| рН | Not available. | |
| Melting point/freezing point | Not available | |
| Initial boiling point and boiling range | Not available | |
| Flash point | Not available | |
| 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 | Not available. | |
| Vapor density | Not available | |
| Relative density | Not available. | |



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| Solubility(ies) | |
|---|---|
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information Density Explosive properties Refractive Index (@20c) | 0.81 g/cm3 estimated at 20 °C Not explosive. 1.48 |
| Molecular weight Oxidizing properties Specific gravity | Not available. Not oxidizing. 0.81 at 25 °C |

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. |



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Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

| Information on likely routes of exposure | |
|---|--|
| Inhalation | Prolonged inhalation may be harmful. |
| | . . |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| | |
| Eye contact | Causes serious eye irritation. Causes mild eye irritation. |
| | |
| Ingestion | |
| | Droplets of the product aspirated into the lungs through ingestion |
| | or vomiting may cause a serious chemical pneumonia. |
| | |
| Symptoms related to the physical, cl | hemical and toxicological characteristics |
| | Aspiration may cause pulmonary edema and pneumonitis. |
| | Severe eye irritation. Symptoms may include stinging, tearing, |
| | redness, swelling, and blurred vision. Skin irritation. May cause |
| | redness and pain. |
| | |
| Information on toxicological effects | |
| Acute toxicity May be | e fatal if swallowed and enters airways. |
| | |
| | |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Despiratory or skip consitiration | |
| Respiratory or skin sensitization | Not a rearrivator / appaitizar |
| Respiratory sensitization Skin sensitization | Not a respiratory sensitizer. |
| | This product is not expected to cause skin sensitization |
| Germ cell mutagenicity | |
| | |



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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

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.



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| | |
| Persistence and degradabilit | ty in the second s |
| | No data is available on the degradability of this substance. |
| Bioaccumulative potential | Partition coefficient n-octanol / water (log Kow) 4.17 |
| | |
| Mobility in soil | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

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).



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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.

14. TRANSPORT INFORMATION

| ADN | | |
|-----|----------------------------|--|
| | UN number | 2319 |
| | UN proper shipping name | TERPENE HYDROCARBONS, N.O.S. (MYRCENE) |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing group | III |
| | Environmental hazards | Yes |
| | Labels required | 3 |
| ADR | | |
| ADR | UN number | 2319 |
| | UN proper shipping name | TERPENE HYDROCARBONS, N.O.S. |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | 5 |
| | Packing group | - |
| | Environmental hazards | Yes |
| | Labels required | 3 |
| | | 5 |
| RID | | |
| | UN number | 2319 |
| | UN proper shipping name | TERPENE HYDROCARBONS, N.O.S. |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing Group | III |
| | Environmental Hazards | Yes |
| | Labels required | 3 |
| | | |



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|---------|-------------------------------|---|
| | Special precautions for user | Read safety instructions, SDS and emergency |
| | | procedures before handling. |
| DOT | | |
| | BULK | |
| | UN number | 2319 |
| | Proper shipping name | TERPENE HYDROCARBONS, N.O.S. |
| | Hazard class | 3 |
| | Packing group | III |
| | Environmental hazards | |
| | Marine pollutant | Yes |
| | Packaging exceptions | 150 |
| | Packaging bulk | 242 3 |
| DOT | Labels required | 3 |
| | NON-BULK | |
| | Not regulated as dangerous of | shoor |
| | | <u>, , , , , , , , , , , , , , , , , , , </u> |
| IATA | | |
| | UN number | 2319 |
| | UN proper shipping name | TERPENE HYDROCARBONS, N.O.S. |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing group | |
| | Environmental hazards | No |
| | Labels required | 3 |
| IMDG | | |
| INDG | UN number | 2319 |
| | UN proper shipping name | TERPENE HYDROCARBONS, N.O.S. |
| | Transport hazard class(es) | 3 |
| | Subsidiary class(es) | - |
| | Packing group III | |
| | Marine pollutant | Yes |
| | Environmental hazards | |
| | Labels required | 3 |
| | | |



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.



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ADN; ADR; DOT BULK; IATA; IMDG; RID Flammable Liquid



Marine pollutant



15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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| 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. SARA 311/312 Hazardous chemical | | |
| Yes | | |
| | | |
| Classified hazard categories | | |
| Flammable (gases, aerosols, liquids, or solids) | | |
| Acute toxicity (any route of exposure) | | |
| Skin corrosion or irritation | | |
| Serious eye damage or eye irritation | | |
| Respiratory or skin sensitization | | |
| Aspiration hazard Hazard not otherwise classified (HNOC) | | |
| | | |
| 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 (SDWA) | | |
| Not regulated. | | |
| | | |
| | | |



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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 | 07-13-2019 |
|------------------|------------|
| Revision date | 07-13-2019 |
| Version | # 01 |
| HMIS® ratings | |
| Health: | 2* |
| Flammability: | 3 |
| Physical hazard: | 0 |

DISCLAIMER

Fogg Flavor Labs, LLC. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Fogg Flavor Labs, LLC

International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination



SAFETY DATA SHEET FOGG TERPENES GREEN CRACK

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with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Fogg Flavor Labs, LLC's knowledge as of the date of this document. It is

the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

Disclaimer

Revision information This document has undergone significant changes and should be reviewed in its entirety.