

**Material Safety Data Sheet
ORANGE JEL**

HYDRAMASTER CORP.

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24 HOUR EMERGENCY PHONE NUMBER
CHEMTREC:..... 800-424-9300

SECTION I – IDENTIFICATION

PRODUCT NAME:..... ORANGE JEL
CHEMICAL FAMILY:..... CITRUS EXTRACT
FORMULA:..... N/A
CAS NUMBER:..... N/A

SECTION II – HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

EYES: May cause moderate to high irritation of the eyes.
SKIN (DERMAL):..... May cause skin irritation. Skin contact may cause slight redness. Contains a potential skin sensitizer. Prolonged or repeated exposure can cause drying, defatting and dermatitis of skin.
SWALLOWING (INGESTION): Harmful if swallowed. Ingestion may cause vomiting, headache, and other medical problems.
INHALATION:..... Inhalation can cause nose, throat and respiratory tract irritation, coughing and headache.
MEDICAL CONDITION AGGRAVATED BY EXPOSURE: Persons with allergies or pre-existing skin conditions should avoid contact with this product.
CHRONIC OVEREXPOSURE: . None known
OSHA REGULATORY STATUS: Since this product is a mixture, there is no defined PEL's (Personal Exposure Limits) established by OSHA. ACGIH TLV's (Threshold Limit Values) for hazardous components are listed in the Hazardous Ingredients Section of this MSDS.

SECTION III – COMPOSITION INFORMATION ON INGREDIENTS

THRESHOLD LIMIT VALUE: . The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

HAZARDOUS INGREDIENT	PERCENT	CAS NO.	ACGIH/TWA	STEL/TLV
D-Limonene	> 80	5989-27-5	NOT EST.	NOT EST.

SECTION IV – FIRST AID DATA

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- EYES:** Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.
- SKIN (DERMAL):**..... Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.
- SWALLOWING (INGESTION):** Seek medical attention immediately. Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Do not leave victim unattended. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.
- INHALATION:**..... Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen as directed by physician or medical personnel.

SECTION V – FIRE FIGHTING MEASURES

FLASHPOINT:..... 115° F (46° C) (D-limonene tech grade)

LOWER EXPLOSIVE LIMIT: .. 0.7% (D-limonene tech grade)

UPPER EXPLOSIVE LIMIT: 6.1% (D-limonene tech grade)

EXTINGUISHING MEDIA: Carbon dioxide, foam or dry chemical.

SPECIAL FIRE FIGHTING

PROCEDURES: Avoid contact with fire fighting personnel as burns may result from contact with skin. when fighting a fire near or involving this product, wear a self-contained breathing apparatus. (SCBA)

UNUSUAL FIRE AND

EXPLOSION HAZARDS:..... Combustible liquid. Keep away from heat, sparks, and open flame. Guard against spontaneous combustion of improperly discarded oily rags.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL/ LEAK PROCEDURES: . Use protective gloves to avoid skin contact. Small spills can be wiped up. Large spills should be absorbed by dirt, sand or other suitable absorbents for disposal. Do not hose spills down drains, sewers or waterways. D-Limonene may be toxic to aquatic organisms. Move leaking containers to well ventilated area. No smoking. Eliminate any source of ignition. Minimize inhalation. Use NIOSH approved respiratory device in areas of high vapor concentration. CAUTION: Slippery on floor.

SECTION VII – HANDLING AND STORAGE

HANDLING INFORMATION:.. Store away from acids, oxidizing compounds and other incompatible materials. Keep containers tightly closed when not in use. Store away from heat or flames. Do not weld, cut or grind on or near any empty containers as vapors may ignite. KEEP OUT OF REACH OF CHILDREN.

STORAGE REQUIREMENTS: . Keep containers tightly closed when not in use. Empty container completely and dispose of in accordance with applicable regulations. SPILLS: Contain spill. Absorb with inert material and dispose in accordance with applicable regulations. Store away from food production areas and food storage areas.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION:..... Safety goggles or glasses suggested.

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RESPIRATORY PROTECTION: Not normally required. If vapor concentration becomes high, use NIOSH approved respirators.

OTHER PROTECTIVE

EQUIPMENT: Oil resistant apron, emergency eye wash and shower stations. Wash thoroughly after handling. Launder contaminated clothing before re-use.

VENTILATION: Local exhaust sufficient to maintain TLV below permissible exposure limits.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Mostly clear colorless gel with citrus odor.

BOILING POINT: > 300° F.

VAPOR PRESSURE: NOT EST.

VAPOR DENSITY (AIR=1): NOT EST.

SPECIFIC GRAVITY: 0.79

pH: N/A

SOLUBILITY IN WATER: Completely soluble in water.

SECTION X – STABILITY AND REACTIVITY DATA

STABILITY: Stable

HAZARDOUS

POLYMERIZATION: Will not occur

INCOMPATIBILITY: Strong oxidizing agents and acidic agents including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.

HAZARDOUS

DECOMPOSITION: Smoke may be acrid and fume irritating. Burning generates carbon monoxide, carbon dioxide and smoke.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL

INFORMATION: **D-limonene: Acute Effects:** Citrus terpenes have been shown to have low oral toxicity (LD50 >5 g/kg) and low dermal toxicity (LD50>5 g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation (RD50. 1 g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, receptively. Inhalation may cause irritation of the nose, throat, and respiratory tract. **Chronic Effects:** This product is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposure can cause drying or dermatitis of skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL

INFORMATION: **D-LIMONENE:** Ecotoxicity: There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic

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organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water. Persistence/Degradability: Product is expected to be readily biodegradable. Bioaccumulation/Accumulation: No appreciable bioaccumulation is expected in the environment. Mobility in Environment: Citrus terpenes volatilize rapidly.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Consult all LOCAL, STATE, and FEDERAL regulations with regard to proper and suitable disposal methods.

SECTION XIV – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: UN-2319, TERPENE HYDROCARBONS, N.O.S. 3, PG-III (when shipped by air or international)
HAZARD CLASS AND LABEL: TDG Status: Hazardous DOT Label/Placard (exemption 173.150(f) applies):
IMO Status: Hazardous Highway/Rail: per requirements for Combustible liquids
IATA Status: Hazardous Air/Ship: per requirements for Flammable Liquids
UN NUMBER: UN-2319
PACKAGING GROUP: PG - III (when shipped air or international)

SECTION XV – REGULATORY INFORMATION

LISTED CARCINOGEN: None known
TSCA STATUS: All components in this product are listed on the TSCA inventory.
SARA SECTION 313: This product does not contain any EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning Community Right-To-Know Act of 1986 (40CFR 372):
NFPA HEALTH: 1
NFPA FLAMMABILITY: 2
NFPA REACTIVITY: 0
WHMIS (Canada): D-limonene: CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

SECTION XVI – OTHER INFORMATION

REFERENCES: The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. HYDRAMASTER CORP. assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

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FOOT NOTES:..... NOT EST. = Not Established, N/A = Not Applicable, (Ceil) = TLV ceiling limit.