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MATERIAL SAFETY DATA SHEET

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I. GENERAL INFORMATION

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Product Name: LEMONGRASS OIL

Synonym(s): LEMONGRASS OIL CHINESE, LEMONGRASS OIL RECTIFIED, LEMONGRASS OIL GUATEMALAN, AND
CYMBOPOGON FLEXUOSUS STAMP

Formula:

Molecular Weight:
CAS #: 8007-02-1

FEMA #: 2624

II. HAZARDOUS INGREDIENT(S)

CONTAINS: SEE ABOVE

III. PHYSICAL PROPERTIES

Physical State: LIQUID

% volatile: NOT AVAIL

Odor: STRONG VERBANA ODOR

Color: REDDISH-YELLOW OR BROWNISH-RED

Solubility in Water: SLIGHTLY SOLUBLE

Boiling Point (Deg C.): NOT AVAIL

Melting Point (Deg C.): NOT AVAIL

Vapor Pressure (mm Hg @ 20 C): NOT AVAIL

Vapor Density (AIR = 1): NOT AVAIL

Specific Gravity @ 25 C (H2O=1.0): 0.875 - 0.908

Refractive Index @ 20 C: NOT AVAIL

Alcohol Content: NOT AVAIL

Water Content: NOT AVAIL

IV. PHYSICAL HAZARD DATA

FLASH POINT (Deg F): 160
L.F.L.: NOT AVAIL

Method Used: CC
U.F.L.: NOT AVAIL

Extinguishing Media: CARBON DIOXIDE; DRY CHEMICAL; UNIVERSAL TYPE FOAM

Special Fire Fighting Procedures: EVACUATE UNPROTECTED AND UNTRAINED PERSONNEL. TRAINED
FIREFIGHTING PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE GEAR.

Unusual Fire, Explosion and Stability Hazards: NONE KNOWN.

V. HEALTH HAZARD DATA

Carcinogenicity:

NTP: NO

OSHA: NO

IARC MONOGRAPH: NO

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

Acute Toxicity Data:

ORAL LD50: NOT ESTABLISHED

INHALATION LC50: NOT ESTABLISHED

DERMAL LD50: NOT ESTABLISHED

HEALTH HAZARDS (ACUTE AND CHRONIC):

Skin Contact: MAY CAUSE IRRITATION

Eye Contact: MAY CAUSE IRRITATION

Inhalation: NOT ESTABLISHED

Ingestion: NOT ESTABLISHED

OTHER EFFECTS: NOT ESTABLISHED

INGESTION: NOT ESTABLISHED

SKIN CONTACT: NOT ESTABLISHED

INHALATION: NOT ESTABLISHED

The health hazard information is based on laboratory animal test data for the individual components of this product in their pure form as provided under 29 CFR 1910.1200 (d)(5)(ii). The user should consider the relevancy of this information in a manner consistent with its particular purpose.

VI. EMERGENCY FIRST AID PROCEDURES

Eyes: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF COLD CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY.

Skin: WASH WITH SOAP AND WATER. FLUSH WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN.

Inhalation: REMOVE TO FRESH AIR AND CALL A PHYSICIAN IF NECESSARY.

Ingestion: ADMINISTER WATER OR MILK TO DILUTE. CONTACT A PHYSICIAN OR LOCAL POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING.

VII. REACTIVITY DATA

This material presents no significant reactivity hazard. Hazardous Polymerization will not occur and it will not react violently with water. Contact with highly reactive chemical oxidants should be avoided. If burned this product will produce carbon monoxide and/or carbon dioxide.

VIII. PERSONAL PROTECTION

Eyes: IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF THE MATERIAL IS TO BE HANDLED IN A MANNER WHERE SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMENDED.

Respiratory: IN WELL VENTILATED AREAS RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN CONFINED, POORLY VENTILATED AREAS THE USE OF NIOSH-APPROVED RESPIRATORY PROTECTION MAYBE REQUIRED OR IF MATERIAL IS RATED TOXIC BY INHALATION.

Equipment & Apparel: THE USE OF CHEMICAL RESISTANT GLOVES IS RECOMMENDED. ACCEPTABLE INDUSTRIAL HYGIENE PRACTICES SHOULD BE MAINTAINED. LIMIT EXPOSURE TO PRODUCT WHENEVER POSSIBLE. WASH AFTER ANY CONTACT. THOROUGHLY WASH ANY CONTAMINATED CLOTHING OR SHOES BEFORE USE.

Ventilation: VENTILATION MEETING ACGIH STANDARDS SHOULD BE EMPLOYED.

IX. STORAGE AND HANDLING

IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN TIGHT FULL CONTAINERS IN A COOL, DRY PLACE, AWAY FROM LIGHT.

X. SPILL, RELEASE AND WASTE DISPOSAL PROCEDURES

REMOVE ANY SOURCES OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. ABSORB SPILLS ON VERMICULITE OR OTHER SUITABLE ABSORBENT MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

XI. DISCLAIMER

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