

HDDES EXTRACTS (PVT) LTD

(Planters, Manufacturers and Exporters of Spices, Essential oils, Oleoresins and Floral Extracts)

309 , Jayantha Weerasekara Mw,Colombo-10 , Sri Lanka.

Tel : +94 112 438 739 Fax : + 94 112 440 556

E-Mail : hddes@sltnet.lk web : www.hddes.com

MATERIAL SAFETY DATA SHEET FOR CARDAMOM OIL

IDENTIFICATION

Label Name : Cardamom Oil

CAS Number : 85940-32-5

Other name : Ceylon Cardamom Oil
(Ellettaria cardamomum.)

FEMA Number : 2240

Chemical name: Cardamom Oil

FDA Number : 13139540402

PHYSICAL DATA

Odour and appearance : Colorless to very Pale Yellow volatile Oil having
Agrestic, Powerfull, Spicy fresh odor.

Specific gravity : 0.921 to 0.936

Boiling point : 188.00 °C

Melting point : Data not found

Vapour pressure : Data not found

Refractive Index : 1.4620 to 1.4680

Solubility in water : slightly soluble

FIRE EXPLOSION AND REACTIVITY

Flash point : 58.89 °C Dot classification : NF Stability : Stable

NFPA Classification : NF

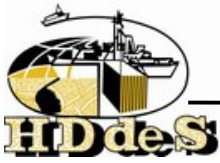
EXTINGUISHING MEDIA

(Yes) FOAM, (Yes) Dry chemical

(Yes) Carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURE/UNUSUAL FIRE AND EXPLOSION HAZARD

Fire fighters should wear positive pressure self-contained breathing apparatus. Spray extinguishing media directly at the base of the flame. Water is unsuitable for use on burning materials, but may be used to cool containers exposed to heat.



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HAZARDOUS COMBUSTION/DECOMPOSITION PRODUCT

When heated to decomposition, produce acrid fumes and smoky combustion may produce Carbon Monoxide and Carbon Dioxide.

HAZARDOUS POLYMERIZATION PRODUCT

Avoid sparks, flame and heat. Avoid contact with oxidizers & avoid hot work and sources of ignition on or near empty containers.

PRODUCT INFORMATION

Respiratory Protection :

Use positive pressure self-contained breathing apparatus. Avoid casual breathing.

Eye Protection :

Use chemical splash goggles (OSHA approved safety glasses) or positive pressure self-contaminated breathing apparatus.

Skin Protection :

Use Oil/Solvent resistant gloves.

Ventilation

Localized Exhaust can be used to Remove Vapors

Other :

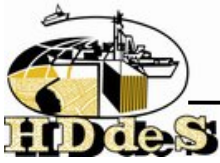
Follow good industrial practices such as eye wash station, safety shower and rubber apron.

OCCUPATIONAL EXPOSURE LIMITS

Threshold Limit Value (TLV)	: Data not established
Effects of Overexposure	: Redness of Skin and/or Eyes
OSHA Permeable Exposure Limit (PEL)	: Data not established
Has substances been listed as a carcinogen	: No

HEALTH HAZARD INFORMATION

Liquid may be irritating to skin and eye. Repeated contact may cause allergic dermatological reaction. Prolonged contact/inhalation may have serious health effect. Should not be used as a fragrance ingredient at a level over 1% in a compound when skin contact is possible.



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EMERGENCY AND FIRST AID PROCEDURES

Inhalation : Remove to fresh air and call a physician.
Eye contact : Remove contact lenses. Flush eyes with cool water for at least 15 Minutes. If irritation persists then call a physician.
Skin contact : Remove contaminated clothing. Wash with mild soap and water.
Ingestion : Rinse mouth. Drink Water or Milk Dilute Consult a physician Immediately

SPILLS, LEAK AND DISPOSAL PROCEDURE

If material spilled or released : Remove all potential sources of ignition. Contain spill with inert non-combustible absorbent and place in approved containers.

WASTE DISPOSAL METHOD

Store in full sealed containers in cool dry place away from sources of ignition heat of direct sunlight. Do not expose to temperature above 35 degrees celsius.

HANDLING AND SHIPPING PROCEDURES

Handle According to Good Safety Procedures avoiding Unnecessary Exposure. Store in full closed containers away from Heat, Light and Sources of Ignition, Store in cool area

NOTE : The information in this MSDS was obtained from current and reputable sources.