

HDDDES 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 CLOVE BUD OIL

IDENTIFICATION

Label Name : Clove Bud Oil
Other name : Ceylon Clove Bud Oil
(Eugenia caryophyllata)
Chemical name: Clove Bud Oil

CAS Number : 908000-34-8
FEMA Number : 2323
FDA Number : 13139540402

PHYSICAL DATA

Odour and appearance : Pale Yellow to Yellow volatile Oil having
Fresh warm clove sweet fruity odor.

Specific gravity : 1.035 to 1.057
Melting point : Data not found
Refractive Index : 1.5230 to 1.5310
Solubility in water : slightly soluble

Boiling point : 251.00 °C
Vapour pressure : Data not found

FIRE EXPLOSION AND REACTIVITY

Flash point : 87.78 °C
NFPA Classification : NF
Dot classification : NF
Stability : Stable

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 :

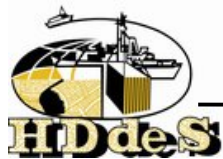
Follow good industrial practices such as eye wash station, safety shower and rubber apron.

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 to Dilute and 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.

IMMEDIATE PRECAUTION TO BE TAKEN IN THE EVENT OF AN ACCIDENT OR INCIDENT

No special precaution are required.

IMMEDIATE METHODS FOR HANDLING FIRE

(Yes) Foam , (yes) Dry, (Yes) CO2

INITIAL METHODS FOR HANDLING SPILLS OR LEAKS IN THE ABSENCE OF FIRE

Small spills ; wipe up with paper rags & place contaminated item in a closed metal waste container.

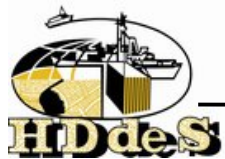
Large spills ; Use non flammable absorbent or remove all sources of ignition.

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.

Comments : Liquid with a flash point (closed cup method) not less than 60° C are Considered as non-flammable liquids.



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