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24 HOUR EMERGENCY: CHEMTREC 800-424-9300
 INTERNATIONAL EMERGENCY: CHEMTREC 703-527-3887
 OTHER INFORMATION: 574-259-7000

1. PRODUCT IDENTIFICATION

ITEM NUMBER:	49031	CAS NUMBER:	8000-34-8
DESCRIPTION:	CLOVE LEAF REDISTILLED OIL	FEMA NUMBER:	2325
BOTANICAL NAME:	(Eugenia Caryophyllata)	FDA NUMBER:	184.1257

2. HAZARD IDENTIFICATION

Hazard Pictograms:

**Signal word:** DANGER

HAZARD TYPE	H CODE	HAZARD STATEMENT
AH 1	H304	May be fatal if swallowed and enters airways.
ATO 5	H303	May be harmful if swallowed.
EDI2A	H319	Causes serious eye irritation.
EH A2	H401	Toxic to aquatic life.
SCI 3	H316	Causes mild skin irritation.
SS 1	H317	May cause an allergic skin reaction.

P CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/ doctor/.../if you feel unwell.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CLASSIFICATION	CAS NUMBER	PERCENTAGE
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4. FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS.

SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL AID IF IRRITATION OF SYMPTOMS OCCURS.

INHALATION: REMOVE FROM EXPOSURE AND MOVE TO FRESH AIR IMMEDIATELY. GET MEDICAL ASSISTANCE IF COUGH OR OTHER SYMPTOMS APPEAR.

5. FIREFIGHTING MEASURES

UPPER EXPLOSION LEVEL: N/A

LOWER EXPLOSION LEVEL: N/A

EXTINGUISHING MATERIAL: CO₂, DRY POWDER OR FOAM TYPE EXTINGUISHERS

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE: REMOVE ANY SOURCE OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. REMOVE INDIVIDUALS FROM THE AREA IF THEY DO NOT HAVE RESPIRATORY/DUST PROTECTION. SPRAY MATERIAL WITH WATER TO PREVENT DUSTING AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. FOLLOW FEDERAL, STATE AND LOCAL PROCEDURES FOR CLEANING UP OF POWDER. DISPOSE OF IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

HANDLE ACCORDING TO GOOD SAFETY PROCEDURES, AVOIDING UNNECESSARY EXPOSURE BY WEARING APPROPRIATE PROTECTIVE GEAR FOR THE SITUATION. STORE IN FULL CLOSED CONTAINERS IN A COOL DRY AREA AWAY FROM HEAT, LIGHT AND SOURCES OF IGNITION.

8. EXPOSURE CONTROL / PPE

EYES: MAY CAUSE IRRITATION

SKIN: MAY CAUSE IRRITATION

RESPIRATORY: RESPIRATORY PROTECTION IS NORMALLY NOT REQUIRED IN WELL VENTILATED AREAS. HOWEVER, APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED WHEN THE MATERIAL IS RATED TOXIC BY INHALATION OR IF THE MATERIAL IS TO BE USED IN A CONFINED AREA.

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): N/F

OSHA THRESHOLD LIMIT VALUE (TLV): N/F

9. PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE:	LIQUID
APPEARANCE:	COLORLESS TO YELLOW LIQUID
ODOR:	SPICY, PHENOLIC, SWEET, CLOVE SPICE
REFRACTIVE INDEX:	1.535
SPECIFIC GRAVITY:	1.040
SOLUBILITY:	INSOLUBLE
pH:	N/A
VAPOR PRESSURE(mmHg @20c):	
VAPOR DENSITY:	N/A
FLASH POINT(°C CLOSED CUP):	93.300
MELTING POINT(°C):	N/A
BOILING POINT(°C):	N/A
AUTO-IGNITION TEMPERATURE(°C):	N/A
DECOMPOSITION TEMPERATURE(°C):	N/A
EVAPORATION RATE:	N/A

ODOR THRESHOLD: N/A
VISCOSITY(cP): N/A
% VOC:

10. REACTIVITY DATA

CHEMICAL STABILITY: Y
SUBSTANCES TO BE AVOIDED: STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

11. TOXICOLOGICAL INFORMATION

LD50(ORAL): N/A
LD50(DERMAL): N/A
LD50: N/A
MUTAGENICITY: N/A
CARCINOGENICITY: N/A
REPRODUCTIVE TOXICITY: N/A

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY: N/A
PERSISTENCE AND DEGRADABILITY: N/A
BIOCONCENTRATION FACTOR: N/A
MOBILITY IN SOIL: N/A
RESULTS OF PBT AND VPVB ASSESSMENT: N/A
OTHER ADVERSE EFFECTS:

13. DISPOSAL CONSIDERATIONS

TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WILL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

14. TRANSPORT INFORMATION

TARIFF#: 3301.29
UN/NA ID#:
DOT: NON-HAZARDOUS
HAZARD CLASS:
PACKING GROUP:
IMO: NON-HAZARDOUS
IATA: NON-HAZARDOUS

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS

RISK PHRASES: R36, R43, R65,
SAFETY PHRASES: S24, S37, S62,

[CLICK TO DOWNLOAD RISK INFORMATION](#)
[CLICK TO DOWNLOAD SAFETY INFORMATION](#)

CAL PROP 65: NO
EPA TSCA: LISTED

SARA TITLE 3: NO**16. ADDITIONAL INFORMATION**

The information contained in this Material Safety Data Sheet was obtained from current and reputable sources. However this data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product. Many federal and state; regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with all applicable regulations.

DATE: 20150728**REVISED DATE:** 20150728