

# MATERIAL SAFETY DATA SHEET

MONTEREY POA CONSTRICTOR

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Issue Date: 2/04

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Chemical Product

MONTEREY POA CONSTRICTOR

EPA Reg. No. 73917-6-17545

Common Name: Liquid herbicide.

Chemical Description: Ethofumesate (2-ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methanesulfonate (active ingredient).

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

### Manufactured For

Monterey Chemical Company

P. O. Box 35000

Fresno, CA 93745-5000

### Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 431-7390

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Ethofumesate	26225-79-6	42	10 mg/m <sup>3</sup> (TWA)*	N.P.
Inert ingredients**	Trade Secret	58	N.A.	N.P.

\* Manufacturer's recommend limit

N.A. – Not available; N.P. – Not Pertinent

\*\* None of the inert ingredients are OSHA or ACGIH regulated chemicals and therefore, are not listed above.

## SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Caution: Harmful if swallowed, inhaled or absorbed. No Specific effects on humans are known under normal use conditions. The product is a creamy white liquid with a faint organic sulfur odor.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1  
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

## SECTION 4. FIRST AID

- If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
- If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**SECTION 5. FIRE AND EXPLOSION HAZARDS**

Flash Point:	Non-combustible.
Test Method:	Not pertinent.
LFL Flammable Limits:	Not pertinent.
UFL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Non-combustible.
Known Hazardous Products of Combustion:	None known.
Properties that Initiate/Contribute to Intensity of Fire:	None known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	None known.
Extinguishing Media:	Dry powder, foam, CO <sub>2</sub> or water.
Special Firefighting Procedures:	Fire fighters should wear self-contained breathing apparatus. Contain any liquid runoff.

**SECTION 6. SPILLS AND LEAKS**

Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with federal or local disposal regulations. Notify the appropriate authorities immediately.

Stop leak if it can be done without risk. Take up with sand or other non-combustible material and place into a clean container for later disposal. Report immediately to authorities if liquid enters watercourse or sewer.

**SECTION 7. STORAGE AND HANDLING**

**Storage:** Store in an area suitable for herbicide, and away from children and pets. PROTECT MONTEREY POA CONSTRICTOR FROM FREEZING TEMPERATURES.

**Handling:** CAUTION - Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or mist. In case of contact, immediately flush eyes or skin with plenty of water.

**USERS SHOULD:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not apply this product through any type of irrigation system.
- For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT
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**Additional advice on system design**

ENGINEERING CONTROLS: Use with adequate ventilation. Local exhaust ventilation may be necessary, when used in a confined area.

**Personal Protective Equipment**

FOR APPLICATORS AND HANDLERS (AGRICULTURAL USES): For agricultural products which are within the scope of the EPA Worker Protection Standards (WPS) (40 CFR Part 170), all users must refer to the statement below or the Product Label for WPS-specified Personal Protective Equipment (PPE), Restricted Entry Interval (REI) and other Precautionary Statements.

PERSONAL PROTECTIVE EQUIPMENT FOR APPLICATORS AND HANDLERS: Applicators and handlers must wear: Long-sleeved shirts and pants, waterproof gloves and shoes plus socks.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED FOR EARLY ENTRY INTO TREATED AREAS: Do not allow worker entry into treated area during the restricted entry interval (REI) of 12 hours.

EXCEPTION: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry into treated area that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, waterproof gloves and shoes plus socks.

FOR MANUFACTURING AND PACKAGING EMPLOYEES: The personal protective equipment (PPE) in accordance with OSHA standards are recommended immediately below.

**Body protection:** PVC or rubber gloves; apron recommended.

**Eye protection:** Safety glasses or splash goggles.

**Respiratory protection:** Ensure good ventilation. Exposure guidelines: Ethofumesate (26225-79-6) – manufacturer's recommended limit (TWA): 10 mg/m<sup>3</sup>.

Although general guidance has been provided, the degree of protection required in a particular situation depends on factors such as concentration and duration.

SECTION 9. PHYSICAL AND CHEMICAL DATA
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Appearance:	Creamy white liquid.
Odor:	Faint organic sulfur odor.
pH:	Not available.
Vapor Pressure:	6.45 x 10 <sup>-7</sup> mm Hg (value for active ingredient)
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	110 mg/l (value for active ingredient).
Density:	1.14 g/ml (value for active ingredient).
Evaporation Rate (butyl acetate = 1):	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10.	STABILITY AND REACTIVITY
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Stability:	Stable under recommended storage conditions. Avoid freezing.
Conditions To Avoid:	Avoid freezing.
Incompatibility:	None known.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Will not occur.

SECTION 11.	POTENTIAL HEALTH EFFECTS
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Acute Effects:

Skin:	Skin irritancy is slight or negligible. Not a skin sensitizer under normal use. Harmful if absorbed through the skin. Dermal LD <sub>50</sub> (rat) > 4,100 mg/kg (low toxicity) [data from a very similar formulation].
Eyes:	Eye irritancy is slight or negligible.
Inhalation:	Harmful if inhaled. No specific effects on humans are known. Inhalation LC <sub>50</sub> (rat-4hrs.): no data is available. However, low toxicity is expected for this formulated product, as indicated by the low toxicity data LC <sub>50</sub> (rat) for the active ingredient (ethofumesate technical) and the non-volatile inert ingredients.
Ingestion:	Harmful if swallowed. No specific effects on humans are known. Oral LD <sub>50</sub> (rat) > 2,100 mg/kg (low toxicity) [data from a very similar formulation].

Medical None known.

Conditions

Aggravated by  
Exposure:

The studies below were carried out with the ethofumesate technical (97.4%), the active ingredient for this formulated product.

Subchronic Results from the 90-day animal studies suggest no target organ effects under the  
(Target Organ) conditions of normal handling and use.  
Effects:

Carcinogenicity No component of this product is listed as a carcinogen by NTP, IARC or OSHA.

: In two year feeding studies with animals, adverse effects were only observed at very high doses. These include: a reduced weight gain in males and increased liver weight in females (rats, 5000 ppm); an increase of liver weight in females (hamsters, 2000 ppm); an increased liver weight in both males and females (dogs, 20,000 ppm).

Teratogenicity: No teratogenic effects were seen in rats at dose levels up to 80 mg/kg/day. In rabbits, no adverse effects of biological significance were observed at the low dose (30 mg/kg/day); slight embryo-lethal effects were noted at 300 mg/kg/day; severe maternal toxicity and moderate embryo-lethal effects were observed at the highest dose (3,000 mg/kg/day). No malformations were observed even at the highest dose.

Reproductive No adverse effects of ethofumesate were observed in a three generation rat study.  
Effects:

Mutagenicity Ethofumesate was not mutagenic or genotoxic when tested in the Ames gene mutation  
(genetic assay and in four other mutagenesis systems.  
effects):

SECTION 12. ECOLOGICAL INFORMATION
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Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

Do not graze livestock on treated crops.

SECTION 13. DISPOSAL
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Proper Waste Disposal: Waste, including spills or rinsates, and leftover pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state or local procedures.

RCRA Classification: RCRA hazardous waste ingredients: None; none are listed by RCRA..

SECTION 14. TRANSPORTATION
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D.O.T. Proper Shipping Description: Not D.O.T. Regulated

Other Shipping Description: Compounds, Tree or Weed Killing (Herbicide).

SECTION 15. REGULATORY INFORMATION
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CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

CALIFORNIA'S PROPOSITION 65: None.

SECTION 16. OTHER
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All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.