

ACECAP®

SYSTEMIC INSECTICIDE IMPLANTS

MATERIAL SAFETY DATA SHEET

CONTAINS ORTHENE® TECHNICAL

Page 1 of 8

Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ACECAP® Systemic Insecticide Implants
PRODUCT NUMBER(S): NA
EPA REGISTRATION NUMBER: 37979-1

| MANUFACTURER | EMERGENCY TELEPHONE NUMBERS |
|---|--|
| Creative Sales, Inc. P.O. Box 501 222 N. Park Avenue Fremont, NE 68025-0501 U.S.A | HEALTH EMERGENCY OF SPILL (800) 759-7739 (402) 727-4800 |

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT NAME/CAS# | EXPOSURE LIMITS | CONC (%) |
|---------------------------------|-----------------|----------|
| ORTHENE® Technical / 30560-19-1 | NA | 100.0 |

CONTAINING

| INGREDIENT NAME/CAS # | EXPOSURE LIMITS | CONC (%) |
|--|--------------------------------|----------|
| ACEPHATE: O,S-DIMETHYL ACETYLPHOSPHORAMIDOTHIOATE | 1mg/m ³ Chevron TLV | > 98.9% |
| MANUFACTURING IMPURITIES | NA | < 1.1% |

EMERGENCY TELEPHONE #: (800) 759-7739 NDA – No Data Available NA – Not Applicable
MSDS Number: 0007 Revision Number: 3 Revision Date: 12/10/2007

All of these manufacturing impurities are present at less than 1% and are not known human carcinogens, or are not known to be hazardous.

TLV - Threshold Limit Value
STEL - Short-term Exposure Limit

TWA - Time Weighted Average
CAS - Chemical Abstract Service Number

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- CAUTION:**
- HARMFUL IF SWALLOWED
 - AVOID CONTACT WITH EYES, SKIN, OR CLOTHING
 - AVOID BREATHING DUST OR SPRAY MIST
 - AVOID BREATHING VAPOR
 - KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

Acute Toxicity

Eye: This substance is not expected to cause prolonged or significant eye irritation.

Skin: This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

Ingestion: This substance is slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut. Signs and symptoms which may be seen usually within 12 hours following overexposure, may include, but not be limited to, headache, dizziness, weakness, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating, abdominal cramps, nausea, and vomiting. Incontinence, unconsciousness, and convulsions indicate severe poisoning. In untreated severe poisoning, respiratory depression or cardiac arrest may be fatal.

Inhalation: If inhaled, this substance is considered practically non-toxic to internal organs. This substance may be irritating if inhaled. Signs and symptoms of respiratory tract irritations may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

Chronic Toxicity (Including Cancer): High doses of Acephate have produced cancer in mice but there is no evidence that Acephate causes cancer in humans.

Teratology (Birth Defects) Information: There is no evidence that Acephate causes birth defects.

Reproduction Information: There is no evidence that Acephate causes reproductive defects in humans.

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For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11.

SECTION 4: FIRST AID MEASURES

EMERGENCY NUMBER (800) 892-0099

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor.

SKIN: If on skin, remove contaminated clothing, wash skin with plenty of soap and water. Wash contaminated clothing before reuse.

INGESTION: If swallowed, drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible, contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center.

INHALATION: If inhaled, move victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

NOTES TO PHYSICIAN: This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: NA **METHOD:** NA

AUTOIGNITION: NDA

EXTINGUISHING MEDIA: CO₂, dry chemical, foam, water fog.

FLAMMABLE LIMITS (% by volume in air): Lower: NDA Upper: NDA

NFPA RATINGS: Health 1; Flammability 1; Reactivity NDA; Special NDA (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including

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self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PRECAUTIONS: Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of waste.

Clean up spills immediately, observing precautions in Personal Protection Section 8. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cat litter, clay, rags or other absorbent and place in a disposable container.

DISPOSAL METHODS: Refer to Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Keep pesticide in original container.
Store in a cool, dry place. Protect from excessive heat.

Do not contaminate food or foodstuffs.
Do not store or transport near feed or food.

SECTION 8: EXPOSURE CONTROLS; PERSONAL PROTECTION

EYE PROTECTION:

User: Do not get this material in your eyes. Eye contact can be avoided by wearing chemical goggles.

Emergency
Responder: NDA

RESPIRATORY/VENTILATION REQUIREMENTS:

User: No Special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Emergency
Responder: NDA

SKIN PROTECTION:

User: No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

Emergency
Responder: NDA

EXPOSURE LIMITS: See Section 2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| APPEARANCE: | White powder with a strong cabbage-like odor. |
| MELTING POINT: | 86.9 – 91.0°C (Decomposes) |
| BOILING POINT: | NA |
| DENSITY/BLUK DENSITY/ SPECIFIC GRAVITY: | 1.35 |
| SOLUBILITY: | Soluble in water; moderately soluble in alcohol and acetone; slight-moderate solubility in aromatic solvents. |
| VAPOR PRESSURE: | 1.7X10 ⁻⁶ mm Hg @ 24°C |
| DISSOCIATION CONSTANT: | NDA |
| OCTANOL/WATER PARTITION COEFFICIENT: | NDA |
| pH: | NDA |
| VISCOSITY: | NDA |
| MISCIBILITY: | NDA |
| CORROSION CHARACTERISTICS: | NDA |

SECTION 10: STABILITY AND REACTIVITY

OXIDATION/REDUCTION PROPERTIES: NDA

SECTION 11: TOXICOLOGY INFORMATION

ACUTE (Product Specific Information)

Eye Irritation: Minimal effects clearing within 24 hours.

Skin Irritation: No irritation was present 72 hours after exposure.

Dermal Toxicity:

OTHER: The significance of the above-mentioned results cannot be fully evaluated for humans. However, based on the dose-response observed in these studies and risk

D.O.T. HAZARD CLASS: Not hazardous
U.N.\N.A.NUMBER: Does Not Apply
PRODUCT RQ (lbs): NONE
D.O.T. LABEL: NDA
D.O.T. PLACARD: NONE
FREIGHT CLASS BULK: NDA
IATA CATEGORY: NDA

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA Status: NONE

TSCA Status: NONE

CERCLA Reportable Quantity: NONE

SARA Title III Status

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: YES
2. Delayed (Chronic) Health Effect: YES
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NDA

RCRA Status: NONE

STATE REGULATIONS: NONE

SECTION 16: OTHER INFORMATION

The information in this MSDS is based on data available to us as of the revision date given herein, and believed to be correct.

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