# **CREATIVE SALES, INC.**

## SAFETY DATA SHEET

1. Identification

ACECAP® 97 SYSTEMIC INSECTICIDE TREE IMPLANTS **Product identifier** 

Other means of identification

SDS number 389 **QAD Number** 12604

Recommended use Organophosphate insecticide.

**Recommended restrictions** None known. Product registration number 37979-1 Health Canada Registration #: 21568

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Creative Sales, Inc. **Address** 222 N. Park Ave

Fremont, NE 68026 USA

**Telephone** 402-727-4800

402-727-4841 (FAX)

Website www.acecap-medicap.com

E-mail brad@acecap.net 800-759-7739 **Emergency phone number** 

2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Acute toxicity, oral Category 4 **Environmental hazard** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment, Category 2

long-term hazard Not classified.

**OSHA** defined hazards

Label elements





Signal word

**Hazard statement** Harmful if swallowed. Harmful in contact with skin. Toxic to aquatic life. Toxic to aquatic life with

long lasting effects.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid

release to the environment. Wear protective gloves/protective clothing.

If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. Response

Call a poison center/doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and

wash before reuse. Collect spillage.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%	
Acephate		30560-19-1	96 - 99	
(O,S-Dimethylacetylphosphoramido				

thioate)

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Do not use mouth-to-mouth

method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask

equipped with a one-way valve or other proper respiratory medical device.

Wash off with soap and water. Get medical attention if irritation develops and persists. Take off Skin contact

contaminated clothing and wash before reuse.

Flush eyes immediately with large amounts of water. Remove contact lenses, if present and easy Eye contact

to do. Get medical attention if irritation develops and persists.

Ingestion If victim is conscious, administer an 8 oz. glass of water containing 2 tbsp, activated charcoal.

> Have person lie on their left side to slow down absorption of the ingested material. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical

advice/attention if you feel unwell. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve

or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

This product is a Cholinesterase Inhibitor. Preexisting skin or respiratory disorders may be aggravated by exposure to components of this product. Preexisting conditions which lower cholinesterase levels increase vulnerability to cholinesterase depression. these include: (for plasma) chronic alcoholism; malnutrition; dermatomyositis; existing toxicity from exposure to carbon disulfide; benzalkonium salts, organic mercury compounds, ciguatoxins or solanines; and (for RBC) hemolytic anemia. Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion; in extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur. Product may cause slight but temporary irritation to the eyes and may cause irritation of the skin. Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

This product is an Organophosphate (OP) Insecticide. Do not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information. Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minutes intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazine, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed indotracheal tube. Keep victim under observation. Keep victim warm. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. This product is a Cholinesterase Inhibitor. A physician should be contacted in all cases of exposure to the technical and its formulations.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Not available.

media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Special protective equipment

**3** , **3** 

and precautions for firefighters Fire fighting Firefighters should wear full protective clothing including self contained breathing apparatus.

equipment/instructions

Use water spray to cool unopened containers.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Shovel up, sweep up or vacuum up the material and place in a container for salvage or disposal. Clean surface thoroughly to remove residual contamination. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5%) and detergent.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage Precautions for safe handling

Wear appropriate personal protective equipment. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wash hands thoroughly after handling. Avoid

release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Occupational exposure limits

Biological limit values

Appropriate engineering

**Controls** 

No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection
Skin protection

If contact is likely, safety glasses with side shields are recommended.

**Hand protection** Wear appropriate chemical resistant gloves. Nitrile gloves are recommended.

Other Wear suitable protective clothing. Long-sleeved shirt and long pants or coveralls, socks and

closed toe shoes are required.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards General hygiene Considerations Wear appropriate thermal protective clothing, when necessary.

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance White solid

Physical stateSolid.FormSolid.ColorWhite

Odor Cabbage-like
Odor threshold Not available.
pH Not available.

Melting point/freezing point 188.42 - 195.8 °F (86.9 - 91 °C) Decomposes

**Initial boiling point and boiling** Not available.

range

Flash point Not applicable
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit – lower

Not available.

(%)

Flammability limit – upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 1.70E-06 mm Hg @ 24 ℃

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient Not determined

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Bulk density20 - 40 lbs/ft3Chemical familyOrganophosphateMolecular formulaC4H10NO3PS

Molecular weight 183.2

pH in aqueous solution Not determined

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

**Conditions to avoid** Strong oxidizing agents and alkaline compounds.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition Emits hazardous fumes and smoke of unknown composition when heated to decomposition or

**products** burned.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Harmful in contact with skin.

Eye contact Direct contact with eyes may cause temporary irritation.

**Ingestion** Harmful if swallowed.

Symptoms related to the

Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

**Acute toxicity** Harmful in contact with skin. Harmful if swallowed.

**Product Species Test Results** 

ORTHENE® TECHNICAL

acute dermal

LD50 rabbit < 10 g/kg Tox Cat IV

inhalation

LC50 > 61.7 mg/l, 4 hr Tox Cat IV rat

oral

LD50 < 1 g/kg female rat

< 1.4 g/kg male

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

**Irritation Corrosion - Skin** 

ORTHENE® TECHNICAL , Tox Cat IV

> Species: rabbit Organ: skin Severity: slight

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Irritation Corrosion - Eye

ORTHENE® TECHNICAL , Tox Cat IV

> Species: rabbit Organ: eye Severity: slight

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Skin sensitization

ORTHENE® TECHNICAL . Not a sensitizer

Species: guinea pig

Organ: skin

, Not a sensitizer Acephate Species: Guinea pig

(O,S-Dimethylacetylphosphoramidothioate)

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

**ORTHENE® TECHNICAL** , EPA has classified Acephate Technical as Group C (possible

human carcinogen).

Result: carcinoma, adenoma

Species: female mice

Organ: liver Severity: increase

Species: male mice, male rats

Severity: none

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Not classified. Specific target organ toxicity -

single exposure

Specific target organ toxicity -Not classified.

repeated exposure

**Aspiration hazard** Not an aspiration hazard

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Test Results** Components **Species** 

Acephate (O,S-Dimethylacetylphosphoramidothioate) (CAS 30560-19-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 50 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 2.36 - 3 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acephate (O,S-Dimethylacetylphosphoramidothioate) -0.85

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

**Products** 

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

**UN** number UN3077

UN proper shipping name Transport hazard class(es) Environmentally hazardous substances, solid, n.o.s. (ACEPHATE)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33 Special provisions

155 Packaging exceptions 213 Packaging non bulk 240 Packaging bulk

**IATA** 

**UN number** UN3077

UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (ACEPHATE)

Class 9

Transport hazard class(es) Subsidiary risk -9 Label(s) Packing group Ш **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Other information

Passenger and cargo No limit

aircraft

No limit Cargo aircraft only

**IMDG** 

UN3077 **UN number** 

UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (ACEPHATE)

Transport hazard class(es)

**Class** 9 Subsidiary risk Label(s) 9 Ш Packing group

**Environmental hazards** 

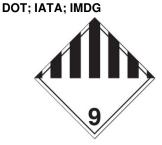
Marine pollutant No.

**EmS** Not available.

Special precautions for user Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and the IBC Code



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Read safety instructions, SDS and emergency procedures before handling.

Standard, 29 CFR 1910.1200. This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt.

Acephate (O,S-Dimethylacetylphosphoramidothioate) 30560-19-1 96 - 99

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Contaminate candidate list

(SDWA)

#### **US** state regulations

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## **US. Massachusetts RTK - Substance List**

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

Acephate (O,S-Dimethylacetylphosphoramidothioate) (CAS 30560-19-1)

## US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Acephate (O,S-Dimethylacetylphosphoramidothioate) (CAS 30560-19-1)

#### **US. California Proposition 65**

United States & Puerto Rico

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region Inventory name On inventory (yes/no)\* Canada Non-Domestic Substances List (NDSL) No Europe Yes

European Inventory of Existing Commercial Chemical

Substances (EINECS)

Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

## 16. Other information, including date of preparation or last revision

Issue date 03-27-2015

References ACGIH: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: **Environmental Protection Agency** 

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 01

**Further information** Not available. **HMIS®** ratings Health: 2

> Flammability: 0 Physical hazard: 0

**NFPA** ratings Health: 2

> Flammability: 0 Instability: 0

SDS US

No

#### Disclaimer

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**Revision Information** 

This document has undergone significant changes and should be reviewed in its entirety.