



## **AGRISOL (INDIA) PVT. LTD.,**

**Corp. Off.:** D.No.3-6-45/A,

Plot No. 130, Vivekananda Nagar Colony,

Kukatpally, Hyderabad – 500 072, Telangana State.

Phone: 040-48555451

Email: [info@agrisolindia.in](mailto:info@agrisolindia.in)

### **ACEPHATE TECHNICAL MATERIAL SAFETY DATA SHEET**

#### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name	:	<b>Acephate Technical</b>
IUPAC Name	:	<i>O,S</i> -dimethyl acetylphosphoramidothioate
Manufacturer / Supplier	:	<b>Agrisol (India) Pvt. Ltd.,</b> Sy.No. 164 & 165, Udumulapadu(V), Dhone(M), Kurnool Dist., AP – 518 222.
Emergency Phones	:	040-48555451

#### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Formulation types	:	Technical material
Active Ingredients	:	Acephate
Chemical Abstracts Name	:	N-[methoxy(methylthio)phosphinoyl]acetamide
IUPAC Name	:	<i>O,S</i> -dimethyl acetylphosphoramidothioate
CAS NO	:	30560-19-1
Chemical Family	:	Organophosphate
Molecular Formula	:	C <sub>4</sub> H <sub>10</sub> NO <sub>3</sub> PS
Molecular Weight	:	183.2



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INGREDIENT	CAS NO #	PROPORTION (w/w)
Acephate	30560-19-1	97.00%
Other Ingredients	Not available	3.00%

#### 3. HAZARDOUS IDENTIFICATION

Emergency overview : Harmful if swallowed. Causes Eye irritation, slightly irritating to skin.

Routes of entry : Inhalation, ingestion, skin and eye contact.

##### Health Hazards

Inhalation : Avoid breathing dust or spray mist.

Skin Contact : Slightly irritating to skin.

Eye Contact : Causes eye irritation. Avoid contact with eyes

Ingestion : Toxic if ingested. Keep out of reach of children

#### 4. FIRST AID MEASURES

If Inhaled : Remove the patient to fresh air. Get immediate medical attention if irritation or discomfort persists.



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If ingested	:	If swallowed, induce vomiting by emptying the stomach by touching the back of the throat with finger. Do NOT induce vomiting to an unconscious person. Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.
Eye contact	:	Hold eye open and flush eyes immediately with water for 15-20 minutes. Take Doctor's advise.
Skin Contact	:	Immediately wash skin with soap and plenty of water till it is removed from skin and nails. Repeat washing the skin if irritation persists. Remove contaminated clothing. Wash clothing before reuse.
Note to physician	:	No specific antidote. Treat symptomatically.

#### **5. FIRE FIGHTING MEASURES**

General Information	:	Harmful if swallowed. Causes Eye irritation, slightly irritating to skin.
Routes of entry	:	Inhalation, ingestion, skin and eye contact.
Extinguishing media	:	Dry chemical, foam, water and Carbon dioxide (CO <sub>2</sub> ).
Protective equipment for firefighters	:	Firefighters should wear self-contained breathing apparatus and full protective clothing. NEVER enter any enclosed area without proper protective equipment. Decontaminate personal protective equipment and firefighting equipment before reuse.



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Unusual Fire and Explosion Hazards : Combustion forms carbon dioxide, water vapor and oxides of sulfur, nitrogen and phosphorous.

#### **6. ACCIDENT RELEASE MEASURES**

Personal precautions : Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation.

Environmental precaution : Do not flush to drain. If spilled on the ground, the affected area should be scraped and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway.

Method for cleaning up : Stop leak if it can be done without risk. Sweep up and place in an appropriate closed container. No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washing for disposal. Decontaminate tools and following cleanup.



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#### **7. HANDLING AND STORAGE**

- Handling : Keep out of reach of children and animals. Personnel handling this product should be thoroughly trained as it is hazardous. Do not breathe dust. Read the label before use.
- Storage : Product shall be stored in rooms or premises away from the rooms or premises used for storing particularly food articles or shall be kept in separate almirahs under lock and key.
- Method for cleaning up : Stop leak if it can be done without risk. Sweep up and place in an appropriate closed container. No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washing for disposal. Decontaminate tools and following cleanup.

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Engineering controlled : When engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure controls techniques may be used to effectively minimize employee exposures: general area dilution /exhaust ventilation.



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#### **Personal protective equipment (PPE):**

- Eye / Face Protection : Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.
- Body Protection : Applicants and other handlers must wear long-sleeved shirts, long pants, chemical resistant, waterproof gloves and shoes.
- Respiratory Protection : Wear a regulatory approved respirator or organic cartridge respirator

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Colourless Solid
- Molecular weight : 183.2
- Specific gravity / Density : 1.35
- Melting Point : 82 - 89°C
- Vapour Pressure : 0.226 mPa (24°C)
- K<sub>ow</sub> log P : -0.89
- Specific gravity / Density : 1.330 (20°C)



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#### **10. STABILITY AND REACTIVITY**

Chemical stability	:	It can degrade on prolonged exposure to elevated temperatures or at alkaline pH. Stable at ambient conditions.
Incompatible materials	:	Alkaline materials and Oxidising Agents.
Hazardous reactions	:	Contact with alkaline materials including hypochlorite oxidants may produce..
Decomposition Products	:	Noxious gases

#### **11. TOXICOLOGICAL INFORMATION**

Acute Oral Rat LD <sub>50</sub>	:	Male Rats - 1447 mg/kg b.w., Female Rats - 1030 mg/kg b.w.,
Acute Dermal LD <sub>50</sub>	:	Rabbits - > 10,000 mg/kg b.w.
Primary Skin Irritation	:	Slightly irritating to skin (Rabbits)
Skin Sensitization	:	Not a skin sensitizer (Guinea Pigs)
Acute Inhalation LC <sub>50</sub> (4h)	:	For Rats - > 15 mg/l air



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#### **12. ECOTOXICOLOGICAL INFORMATION**

Birds LD <sub>50</sub>	:	Mallard Ducks - 350 mg/kg b.w., Chickens - 852 mg/kg b.w., Ring-necked pheasants - 140 mg/kg b.w.,
Fish LC <sub>50</sub> (96 h)	:	Blue gill sunfish - 2050 mg/l., Rainbow trout - > 1000 mg/l., Channel catfish - 2230 mg/l., Largemouth black bass - 1725 mg/l
Daphnia	:	EC <sub>50</sub> (48 h) - 67.2 mg/l
Algae	:	EC <sub>50</sub> (72 h) > 980 mg/l.
Other Aquatic spp.	:	LC <sub>50</sub> (96 h) for Cray fish - 750 ppm
Bees	:	LD <sub>50</sub> (Contact) - 1.2 µg/bee

#### **13. DISPOSAL CONSIDERATION**

Do not contaminate water, food or feed by storage or disposal. Contamination with product will render water, food or feed unfit for human or animal consumption.

Triple rinse the empty container. Add the rinsing to the spray mixture in the tank. Make the empty rinsed container unsuitable for further use. Dispose off the container in accordance with the provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturing or the manufacturer or the provincial regulatory agency.





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**14. TRANSPORT INFORMATION**

**Rail / Road (RIR / ADR)**

Proper Shipping Name : Organophosphorus Pesticides, Solid, Toxic, N.O.S.  
Class : 6.1  
UN No. : 2783  
Packing Group : III

**Sea - IMDG Code**

Proper Shipping Name : Organophosphorus Pesticides, Solid, Toxic, N.O.S.  
Class : 6.1  
UN No. : 2783  
Packing Group : III

**Air (ICAO / IATA)**

Proper Shipping Name : Organophosphorus Pesticides, Solid, Toxic, N.O.S.  
Class : 6.1  
UN No. : 2783  
Packing Group : III



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#### **15. REGULATORY INFORMATION**

EC Classification Hazard Symbol	Xn	Harmful
Special Risk (R-Phrases)	R22	Harmful if swallowed

#### **16. OTHER INFORMATION**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*

**Prepared by** : Agrisol (India) Pvt. Ltd.

**Date** : 31.12.2019