

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name:	Acephate 75% SP
Other name:	/
Recommended use of the chemical and restrictions on use	Insecticide
Supplier name:	Shandong Weifang Rainbow Chemical Co., Ltd.
Supplier address:	Binhai Economic Development Area, Weifang, Shandong, China
Supplier phone:	+86-531-88875222, 88875231
Supplier fax:	+86-531-88875232, 88875224
Emergency phone number:	+86-531-88875222

2. HAZARDS IDENTIFICATION

Hazard statement(s):

Maybe harmful if swallowed or contact with skin.

Very toxic to aquatic life.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Acephate	30560-19-1	75%
Other ingredients	/	Up to 100%

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation: Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Supply oxygen if necessary. Treat symptomatically and supportively. Seek medical advice immediately.

Skin contact: Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical advice if necessary. Persons who become sensitised may require specialised medical management with anti-inflammatory agents.

Eye contact: Immediately flush eyes with gently flowing cold water or saline solution for 20 minutes, holding the eyelid(s) open. Seek medical attention immediately.

Ingestion: Have victim rinse mouth thoroughly with water. Seek medical advice immediately.

Advice to Doctors:

Atropine must be administered as early as possible and could save lives, if given in time and in an adequate dosage. Patients with organophosphate poisoning require amounts of atropine far in excess of doses usually employed in medical practice. The therapeutic objective is to achieve atropinisation, as evidenced by dilation of the pupils, drying secretion, pulse rate of over 120/minutes, and flushing skin. To prevent gastrointestinal absorption in unconscious that have swallowed this product, perform stomach lavage using bicarbonate solution and activated charcoal.

In less severe cases begin with 2 mg atropine intravenously for adults or 0.05 mg atropine/kg body weight intravenously for children under 12 years of age and repeat administration of the drug at 15 to 30 minutes intervals.

In severe cases a total atropine dose of 20 to 80 mg in the first hour may be necessary, with repeated drug administrations at 3 to 10 minutes intervals. When signs of atropinisation appear, the dose and frequency of administration should be reduced to a schedule that will maintain full atropinisation for at least 24 hours.

Overdosage with atropine is rarely serious, but underdosage may be fatal in poisoning with organophosphorous compounds.

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In any severe progressive case of poisoning a cholinesterase reactivator e.g. pralidoxime (2PAM), if available, should be administered, preferably within 8 hours after intoxication. An average dose is 1 g for an adult (up to 50 mg/kg for children), usually given half as a single intramuscular or intravenous injection and the other half as an intravenous infusion with glucose and or saline. In severe cases this treatment may be repeated in 1 to 2 hours, then at 10 to 12 hour intervals if needed, but not beyond 24 hours, or 48 hours at the most. Pralidoxime should be administered very slowly. If respiration is depressed during or after pralidoxime injection, pulmonary ventilation should be assisted mechanically. Toxogonin is a more recent cholinesterase reactivator. It can be administered instead of 2PAM at a dose of 250 mg intramuscularly for adults (4 to 8 mg/kg for children) and, if necessary, repeated after 1 to 2 hours. Diazepam should be included in the therapy of severe cases and whenever convulsions appear. Doses of 5 to 10 mg for adults (2 to 5 mg for children) can be administered intravenously or subcutaneously or per rectum, and repeated as required.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

carbon dioxide, dry powder, or alcohol-resistant foam

Special protective actions for fire-fighters:

Remove spectators from surrounding area. Remove container from fire area if possible without risk. Eliminate all ignition sources in immediate area. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Keep upwind.

Fire-fighters and others that may be exposed should wear full protective impervious clothing, including gloves and eye protection, and self-contained breathing apparatus. Contact with the fumes and vapours should be avoided by staying upwind

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Isolate and post spill area. Keep out unprotected persons and animals. Wear elbow-length PVC gloves and face-shield. Large spills should be dyked or covered to prevent dispersal. Vacuum shovel or pump spilled material into an approved container and dispose of as listed in section 13.

After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use.

Methods and materials for containment and cleaning up:

Do not allow entering drains or watercourses. When the product contaminates public waters, report immediately to the Police and to the Department of Water/Environmental Affairs.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do so without any risk.

Prevent entry of substance into waterways, sewers, basements or confined areas.

Absorb or cover spill with dry earth, sand or suitable noncombustible absorbent material, and place into containers for subsequent disposal.

Thoroughly wash body areas, which come into contact with the product. Avoid runoff to sewer as it may cause fire/explosion. Do not allow the product to come in contact with water systems. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind. Do not get water inside the containers.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure containers are kept closed until using product. No smoking, eating or drinking should be allowed where material is used or stored. Product is poisonous if inhaled or swallowed. May irritate the eyes and skin. Avoid

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contact with eyes and skin. Do not inhale spray mist. When preparing spray wear elbow-length PVC gloves and face-shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

Conditions for safe storage, including any incompatibilities:

DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in closed original containers, in a cool, well ventilated area away from children, animals, food and feedstuffs. Do not store for prolonged periods in direct sunlight. Do not store near sources of ignition or naked flames. Refer to state regulations for storage and transport requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Only spark-resistant equipment should be used. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal protective equipment:

Respiratory protection: Wear NIOSH approved respiratory protection

Eye protection: Employee must wear splash-proof safety goggles and face-shield to prevent contact with this substance.

Skin and body protection: Employee must wear appropriate protective (impervious) clothing (long sleeved cotton overalls, apron, rubber boots, face shield and hat or cap) and equipment to prevent skin contact with the substance. Employee must wear appropriate chemical resistant protective gloves (PVC or neoprene gloves) to prevent contact with this substance

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	Off-white to white powder
Odor:	Slight, characteristic organophosphate odour
Flammability:	Non-flammable
Corrosiveness:	Non-corrosive
Vapor pressure:	Not available.
Density:	0.705 g/l at 25°C
Solubility(ies):	Instantaneously soluble in water

10. STABILITY AND REACTIVITY

Chemical stability:

Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Incompatible materials:

Strong acids, strong bases agents.

Hazardous decomposition products:

Product undergoes decomposition at high temperatures. Avoid heating above ambient temperature. Oxides of carbon, phosphorus and sulphur are released when the product decomposes on heating.

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity:

Acute oral LD50:	> 2000 mg/kg in the rat
Acute dermal LD50:	>2000 mg/kg in the rat
Acute inhalation LC50:	15mg/L, 4h
Skin irritation:	Not irritating (rabbits)
Eye irritation:	Not irritating (rabbits)
Skin sensitization:	Non-sensitizer (guinea pigs)

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Birds - Acute LD50:	Toxic to birds
Fish - Acute 96 hour LC50:	Relatively non-toxic to fish
Honeybees - acute 48 hour LD50	Toxic to bees

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Product:

Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed should be disposed of in a landfill approved for pesticide disposal. Do not contaminate rivers, dams or any other water sources with the product or used containers. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Comply with local legislation applying to waste disposal.

Contaminated packaging:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number:

3077

UN proper shipping name:

Environmentally hazardous solid substance, n.o.s.

Transport hazard class(es):

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Packing group, if applicable:

III

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.