



MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Dimethoate 40% EC

Product Class: Insecticides

Chemical family: organophosphate

Chemical Name:

O,O-dimethyl S-methylcarbamoylmethyl phosphorodithioate; 2-dimethoxyphosphinothioylthio
-N-methylacetamide

Chemical Formulation: $C_5H_{12}NO_3PS_2$

Formulation: Emulsifiable concentrate

Supplier: Shenzhen Yufull Industries Co., Ltd

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2. HAZARDS IDENTIFICATION

Flammability: Not flammable.

Reactivity: Stable under normal storage conditions.

Carcinogenicity: Not carcinogenic.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS No.	Proportions
Dimethoate	60-51-5	40%
Others	--	60%
TOTAL		100%



4. FIRST AID MEASURES

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move person to fresh air. If person is not breathing, give artificial respiration. Call poison control center for further treatment advice.

Ingestion: Call poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by poison control center. Never give anything by mouth to an unconscious person.

Dermal Contact: Remove contaminated clothing. Wash skin immediately with soap and water for 15 minutes. Call physician if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed



containers for disposal.

7. HANDLING AND STORAGE

Storage Conditions: Do not store near feed, food, or within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials.

Special Handling Considerations: Exercise caution to prevent damage to or leakage from the containers.

Container Disposal: Reuse of empty pesticide containers is prohibited. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or through licensed TSDF.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: End User: None required. Safety glasses recommended.

Manufacturing: Safety goggles or glasses with side-shields required.

Respiratory Protection: None required.

Use MSHA/NIOSH approved respirator when necessary.

Dermal Protection: Refer to product labeling. Skin contact should be prevented by use of gloves, long-sleeved shirt, and long pants. Wash contaminated clothing separately.

Engineering Controls: Manufacturing: Provide local exhaust ventilation.

End User: Refer to label instructions regarding application equipment.

Other Precautions: Clean water should be available to allow for flushing of skin and eyes in the event of chemical exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Blue liquid
Odour	Characteristic
Density/sp.gr	1.051 g/ml at 20°C
PH	7.0-9.0
Vapour pressure	1.13 MPa/25°C
Flammability/flash point	46°C (Pensky-Martens closed tester)



10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Incompatible materials: Strong bases, strong acids and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat 1200 mg/kg

Dermal: LD50 for rabbit 2020 mg/kg

Inhalation: LC50 for rat >2.0 mg/L (4 hr)

Irritant properties:

Skin: Slight irritant (rabbit)

Eye: Substantial but temporary eye injury. Skin Irritation (rabbit)

12. ECOLOGICAL INFORMATION

Birds

Acute oral LD50: for mallard ducks 42,
bobwhite quail 10.5,
Japanese quail 84,
ring-necked pheasants 14.1 mg/kg b.w.

Dietary LC50 (5 days): for mallard ducks 1011,
bobwhite quail 154,
Japanese quail 346,
ring-necked pheasants 396 ppm.

Fish

LC50 (96 h): for rainbow trout 24.5,
bluegill sunfish 17.6 mg/l.

Daphnia EC50 (48 h): 2 mg/l.

Algae EC50: for *Selenastrum capricornutum* 90.4 mg/l.



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Bees LD50 (oral): 0.15 µg/bee.
LD50 (contact): 0.12 µg/bee.

Earthworm: LC50 (14 days): 31 mg/kg dry soil.

13. DISPOSAL CONSIDERATION

Waste disposal: Spill and waste disposal procedures in conformity with state and local regulations must be followed. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Container disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. However, if other procedures are prescribed by state or local regulations, these must be followed.

14. TRANSPORT INFORMATION

IMDG/IMO

UN/ID No: 3017

Proper shipping name : ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE

Hazard Class 6.1+3

Packing Group: III

Packing method: according to the manufacturer's recommended packing method, trade carton packing

Marine pollutant Yes

Transportation Precautions: Do not transport with food and feed. Marine pollutants.

15. REGULATORY INFORMATION

Risk symbols: Xn Harmful

Risk phrases:

- R20 Harmful by inhalation.
- R22 Harmful if swallowed.
- R24/25 Toxic in contact with skin and if swallowed.
- R65 Harmful – may cause lung damage if swallowed.

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Safety phrases:

S20/21 When using do not eat or drink/smoke

S22 Do not breathe dust.

S23 Do not breathe spray.

S24/25 Avoid contact with skin/eyes

S29/35 Do not empty into drains/Dispose of material and container in a safe way

16. OTHER INFORMATION

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