



# SUNFARM AGROCHEMICALS LTD

ADD.: XIAOMIAO TOWN, SHUSHAN DISTRICT, HEFEI, ANHUI, CHINA  
WWW.SUNFARMCHEM.COM SUNFARMAGRO@YAHOO.COM +86-15986675013

## Material Safety Data Sheet

(In accordance with 2001/58/EC)

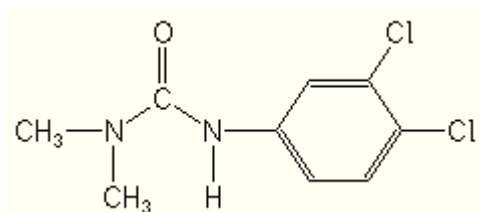
### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **DIMETHOATE 40% EC**

CAS No.: **60-51-5**

Empirical formula: **C<sub>5</sub>H<sub>12</sub>NO<sub>3</sub>PS<sub>2</sub>**

Structural formula:



Product use: **INSECTICIDE AND ACARICIDE**

Molecular weight: **229.3**

Supplier: **SUNFARM AGROCHEMICALS LTD.**

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition	Content (% ,W/W)	CAS number
Dimethoate	40.0 min.	60-51-5

### SECTION 3: HAZARDS IDENTIFICATION

**Effects of acute exposure:**

**Ingestion:** Harmful if swallowed.

**Skin contact:** Non-irritating to skin.

**Inhalation:** May cause headache, dizziness, respiratory irritation.

**Eye contact:** Non-irritating to eyes.

### SECTION 4: FIRST AID MEASURES

**If poisoning occurs, immediately contact a Doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.**

**Ingestion:** Rinse mouth. Do not induce vomiting and do not give liquids of any kind to the person. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

**Eye contact:** Flush eyes with water immediately and continuously for 15 minutes. Consult a physician.

**Skin contact:** Remove contaminated clothing and wash before reuse. Wash skin with plenty of soap and water for 15 minutes. Consult a physician if irritation develops.

**Inhalation:** Remove to fresh air. Consult a physician if irritation develops of breathing is difficult.

### SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media:** Dry chemical powder, carbon dioxide, water spray or foam.

**Hazards from combustion products:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**Precautions for fire fighters:** Firefighters should wear full protective gear, including self-contained



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breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precaution:** Avoid contact with spilled material or contaminated sources. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing.

**Small spill:** Shut off ignition sources. Stop release Dike or contain release and access to the release area. Take actions to reduce vapor dilute with absorbent materials like sand/saw dust. Clean spill areas of residues and absorbent.

**Large spill:** Shut off ignition sources stop release dike or contain release. Isolate and control access to the release area. Take action to reduce vapors. Collect product in to drums and clear spillers.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Keep out of reach of children. Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling this product. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

**Storage:** Keep in original container-tightly closed. Do not expose to temperatures exceeding 60°C. Store under cool, dry, well ventilated conditions, but below 0°C. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Provide general and or local exhaust ventilation to control airborne levels below the exposure guidelines.

**Personal Protective Equipment:**

**Respiratory Protection:** Wear approved mask.

**Protective Gloves:** Avoid contact with skin; wear waterproof gloves.

**Eye Protection:** Safety glasses with side shields are required.

**Other Protective Equipment:** A lab coat or other long – sleeved garment is required. Access to a safety shower and eyewash station is recommended.

## SECTION 9: PHYSICAL PROPERTIES

### Appearance

**Physical state:** Liquid

**Color:** Light blue

**Odor:** Slight odor

**Density:** 1.04-1.11

**Acidity (as H<sub>2</sub>SO<sub>4</sub>):** 0.30% max.

### Safety data

**Solubility in water:** Forms an emulsion in water

**Oxidizing properties:** Non-oxidizing

**Explosive properties:** Non-explosive



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**Corrosive properties:** Non-corrosive

**Storage stability:** Stable under normal storage conditions in original container for at least two years.

## SECTION 10: STABILITY AND REACTIVITY

**Chemical stability:** Stable at normal temperatures.

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive heat and fire.

**Incompatibility (materials to avoid):** Avoid contact with strong alkali or oxidizing agents.

**Hazardous decomposition products:** Toxic thermal decomposition products may include oxides of carbon, sulphur, phosphorus and nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub>:** 387 mg/kg b.w. (rats). 300 mg/kg b.w. (rabbits).

**Acute dermal LD<sub>50</sub>:** >2000 mg/kg in rats.

**Acute inhalation LC<sub>50</sub>:** >1.6 mg/L (4h) in rats.

**Acute skin irritation:** Non-irritating to skin (rabbits).

**Acute eye irritation:** Non-irritating to eyes (rabbits).

**Sensitization:** Not a sensitizer (Guinea pig).

## SECTION 12: ECOLOGICAL INFORMATION

**Birds:** Acute oral LD<sub>50</sub> for mallard duck 41.7 to 63.5 mg/kg, for Japanese quail 341 mg/kg

**Fish:** LC<sub>50</sub> (96 h) for Rainbow trout 24.5 mg/L, for Carp 694 mg/L, LC<sub>50</sub> (48 h) for bluegill sunfish 17.6 mg/L

**Daphnia:** EC<sub>50</sub> (24h) 4.7mg/L

**Bees:** LD<sub>50</sub> (48 h) 0.12 µg/bee.

## SECTION 13: DISPOSAL CONSIDERATIONS

See the individual container label for disposal information. Emptied packages retain product residue and dust. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely stored for collection by approved waste disposal service. Do not re-use containers. Recycle if appropriate facilities/equipment available. Bury in approved landfill. Follow all local/regional/national/international regulations.

## SECTION 14: TRANSPORT INFORMATION

UN Number: 3018

Proper Shipping Name: Organophosphorus pesticide, Liquid, Toxic,

Dangerous Goods Class: 6.1

Packing Group: III

## SECTION 15: REGULATORY INFORMATION

**Risk phrases:**

R22 Harmful if swallowed



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## Safety phrases:

S1/2 Keep locked up and out of reach of children.

S28 After contact with skin, wash immediately with plenty of (to be specified by manufacturer).

S36/37 Wear suitable protective clothing and suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment, refer to special instructions/safety data sheets.

## SECTION 16: OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of SUNFARM AGROCHEMICALS LTD's knowledge, SUNFARM AGROCHEMICALS LTD makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product.

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For and on behalf of

**SUNFARM AGROCHEMICALS LTD**