

DREXEL DIMETHOATE 4EC

SECTION 1: MATERIAL IDENTIFICATION

Product Name: Drexel Dimethoate 4EC Systemic Insecticide – Miticide
EPA Reg. No.: 19713-231
Product Usage: Insecticide, Miticide

Manufacturer: Drexel Chemical Company
Address: 1700 Channel Avenue
 PO Box 13327
 Memphis, Tennessee, 38113-0327, USA
 901-774-4370

Emergency Telephone Numbers: CHEMTREC 800-424-9300
 DREXEL CHEMICAL COMPANY 901-774-4370

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Refer to SECTION 15: REGULATORY INFORMATION for explanation.

SECTION 2: HAZARD IDENTIFICATION

(As defined by the OSHA Hazard Communication Standard, 29)

Label Elements:
Signal Word:

DANGER



Classifications:
Hazard Class:

<u>Toxicity Study:</u>	<u>Category:</u>
Acute Toxicity, Oral	Category 3
Skin corrosion/ irritation	Category 2
Serious eye damage / irritation	Category 2B
Aspiration Liquids	Category 1
Specific Target Organs: Single	Category 1
Specific Target Organs: Repeated	Category 2
Flammable Liquids	Category 3
Hazard to Aquatic Environment, short term (Acute)	Category 2

Hazard Statements:

<u>H Code:</u>	<u>Statement:</u>
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H315	Causes skin irritation
H320	Causes eye irritation
H304	May be fatal if swallowed and enters airways
H370	Causes damage to nervous system
H372	May cause damage to nervous system through prolonged or repeated exposure
H401	Toxic to aquatic life

Precautionary Statements:
Prevention:

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wash face, hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
In case of inadequate ventilation, wear respiratory protection.
Avoid release into the environment.

Response:

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get immediate medical advice/attention.

If Swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER or doctor if you feel unwell.

If on Skin or Clothing: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If exposed or concerned: Get medical attention.
Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a cool, dry, and secure area designated specifically for pesticides and away from heat sources. Always use oldest stock first.

Disposal:

Dispose of contents/container in accordance with your local or area regulatory authorities.

Specific hazards:

None available.

SECTION 3: COMPOSITION INFORMATION

<u>Chemical Name:</u>	<u>Synonym:</u>	<u>CAS No.:</u>	<u>EC No.:</u>	<u>RTECS:</u>	<u>% By Wt.:</u>
Active Ingredient: Dimethoate	N/A	60-51-5	200-480-3	TE1750000	43.5 %
Inert Ingredients:	N/A	N/A	N/A	N/A	56.5 %

SECTION 4: FIRST-AID MEASURES

Have the product container, label and / or Safety Data Sheets (SDS) with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.

Eye Contact:

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Swallowed:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Skin/Clothing Contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If Inhaled:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Indication of Medical Attention and Special Treatment Needed:

Treat symptomatically.
If medical advice is needed, have product container or label at hand.

Note to Physician:

This product contains a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory depression. Decontamination procedures such as whole body washing, gastric lavage and administration of activated charcoal are often required. If symptoms are present, administer atropine sulphate in large doses as soon as possible. Repeat at 5 to 10-minute intervals until signs of atropinization appear. Maintain full atropinization until all organophosphate is metabolized. Pralidoxime chloride (2-PAM) may be administered as an adjunct to, but not a substitute for atropine. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Very close supervision of the patient is indicated for at least 48 hours, depending on the severity of poisoning.

SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Media:

Dry chemical, CO₂, Foam, Water fog. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

Fire Fighting Procedures:

Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Cool closed containers exposed to fire with water spray, if possible. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Specific Fire Hazards:


Flammable liquid and vapor. Will ignite when exposed to heat, flame and other sources of ignition. Vapors can travel to a source of ignition and flash back causing an explosive and fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): Flammable
 Flash point: > 100°F
 Lower flammable limit (% by volume): N/Av
 Upper flammable limit (% by volume): N/Av

Hazardous Combustion Products:

Carbon oxides, sulfur oxides, nitrogen oxides, phosphorus oxides, irritating fumes and smoke.

National Fire Protection Association:

NFPA: 	Health	Fire	Reactivity
	3	2	0

Ratings: 4-Extreme 3-High 2-Moderate 1-Slight 0-Insignificant

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

Steps to be taken if Material is Released or Spilled:

Control the spill at its source.

Small spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Prevent entry into waterways, sewers, basements or confined areas.

Large spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

Handling: **General Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Use with adequate ventilation. Wear chemical protective equipment when handling. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. Do not reuse this container. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

Storage: Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies. Always use oldest stock first.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Components:	OSHA PEL	ACGIH TLV
Dimethoate	N/A	0.1 mg/m ³

THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Engineering Controls:

Ventilation: Investigate engineering techniques to reduce exposures. When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility / station and safety shower. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Personal Protection:

Eye/Face Protection: Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid getting wash water in eyes.

Hand Protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Viton, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as the instructions / specs provided by the supplier of gloves.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Reported Value
Physical State	Liquid
Appearance / Color	Yellow
Odor	Slight Solvent Odor
Odor threshold	Not available
pH	3.0 – 5.0
Melting point	Not available
Freezing point	Do not store below 45°F
Boiling point	156°C
Flash point	>100°F
Evaporation rate	Not available
Flammability	Not available
Upper flammability/explosive limits	Not available
Lower flammability/explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	9.00 lbs. / gal.
Solubility in water	Emulsifies in water
Solubility in organic solvents	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Explosive properties	Not available
Oxidizing properties	Not available
Dissociation Constant	Not available
% Volatiles	Approx. 45%

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Thermally stable at typical use temperatures and in closed containers.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	The decomposition reactions involve rearrangements and polymerization.
Conditions to Avoid:	Keep this product away from heat, sparks, flame and other sources of ignition (e.g. pilot lights, electric motors, static electricity).
Incompatible Materials:	Avoid contact with: Strong bases. Strong oxidizers. Amines.
Hazardous Decomposition Products:	Decomposition products can include and are not limited to: Carbon oxides, sulfur oxides, nitrogen oxides and phosphorus oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Potential routes of exposure/potential health effects:	Skin contact, Eye contact, Ingestion, Inhalation	
Acute Oral:	LD₅₀ (Rat):	345 mg/kg
Acute Dermal:	LD₅₀ (Rat):	>2,020 mg/kg
Acute Inhalation:	LC₅₀ (Rat):	>5.42 mg/L
Eye Irritation:	(Rabbit):	Moderately irritating (Category II for washed eyes).
Skin Irritation:	(Rabbit):	Slightly irritation
Skin Sensitization:	(Guinea Pig):	Non-sensitizer

Chronic Toxicity: No data available

Carcinogenicity: This product does not contain any materials which are classified as carcinogenic by OSHA, IARC, ACGIH, or NTP.

Mutagenicity: No data available

Teratogenicity: No data available

Reproductive Toxicity: No data available

Developmental Toxicity: No data available

Specific target organ toxicity- single exposure: No data available / Not classified

Specific target organ toxicity- repeated exposure: No data available / Not classified

Other Hazards Effects: No data available

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Dimethoate Toxic to wildlife and aquatic invertebrates and is highly toxic to bees.

ECO-ACUTE TOXICITY

Aquatic Toxicity:	Rainbow Trout, LC₅₀ 96 hour	30.2 ppm
	Bluegill Sunfish, LC₅₀ 96 hour	No data available

	Daphnia magna, LC₅₀ 48 hour	2.5 ppm
Arthropod Toxicity:	Bees, Acute LD₅₀	0.12 µg/bee (topical); 0.15 µg/bee (oral)
Bird Toxicity:	Mallard Duck, LD₅₀ Bobwhite Quail, LD₅₀	41.7 mg/kg No data available
Algal Toxicity:	Algae, LC₅₀ 96 hour	No data available
Soil Organism Toxicity:	Earthworm acute toxicity	No data available
Persistence and degradability:	Readily biodegradable, undergoes rapid degradation in the environment. Degradation occurs both aerobically and anaerobically, and biologically as well as abiotically.	
Bioaccumulation:	No data available	
Mobility in soil:	No data available	
Other adverse effects:	Do not contaminate water supplies, lakes, streams, ponds or drains with this product.	

SECTION 13: DISPOSAL CONSIDERATIONS

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14: TRANSPORT INFORMATION

DOT:	UN 3017, Organophosphorus pesticide, liquid, toxic, flammable, (Dimethoate / Cyclohexanone), 6.1, (3), PG-III, RQ 10 Lbs., Marine Pollutant
IMDG:	UN 3017, Organophosphorus pesticide, liquid, toxic, flammable, (Dimethoate / Cyclohexanone), 6.1, (3), PG-III, RQ 10 Lbs., Marine Pollutant
IATA / ICAO:	UN 3017, Organophosphorus pesticide, liquid, toxic, flammable, (Dimethoate / Cyclohexanone), 6.1, (3), PG-III, RQ 10 Lbs., Marine Pollutant
UN Identification No.:	UN 3017
Proper Shipping Name:	Organophosphorus pesticide, liquid, toxic, flammable, (Dimethoate / Cyclohexanone), 6.1, (3), PG-III, RQ 10 Lbs., Marine Pollutant
Hazard Class:	6.1, (3)
Packing Group:	III
Reportable Quantity:	10 lbs. (Dimethoate); 5,000 lbs. (Cyclohexanone)
Environmental Hazard:	Marine Pollutant
Freight Description:	Agricultural Insecticide, liquid, N.O.S.
ERG Guide No.:	131
Transport Information Note:	Cannot be transported on the same transport vessel with any Class 5 or 8 material.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard:	This product contains hazardous components as defined under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200.
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Pesticide Registration: This product is a pesticide registered by the Environmental Protection Agency (EPA) and is subject to certain FIFRA labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Reg. No.: 19713-231
FIFRA Label Signal Word: WARNING
FIFRA Label Information: KEEP OUT OF REACH OF CHILDREN
FIFRA Label Information: Hazards to Humans and Domestic Animals
 WARNING: May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin.

EPCRA SARA Title III Classification:
Section 302: Extremely Hazardous Substance Notification: Dimethoate, CAS No. 60-51-5, 500 / 10,000
Sections 311 and 312: Immediate (Acute) Health Hazard: Yes
 Delayed (Chronic) Health Hazard: Yes
 Fire Hazard: Yes
 Reactive Hazard: No
 Sudden Release of Pressure Hazard: No

Section 313 Toxic Release Inventory (TRI): Dimethoate, CAS No. 60-51-5, 313

CERCLA/SARA 304 Reportable Quantity (RQ): Dimethoate, CAS No. 60-51-5, 10 lbs.

RCRA Hazardous Waste Classification (40 CFR 261): Dimethoate, CAS No. 60-51-5, P044

US EPA Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): Dimethoate Listed as causing: Not listed
 Listing date: Not listed
 Listing basis: Not listed
 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Date Issued: March 25, 2021 **Date Supersedes:** May 29, 2020 **Revision:** 1

For all non-emergency questions about this product, please contact: 1700 Channel Avenue Phone: 901-774-4370
 PO Box 13327 Fax: 901-774-4666
 Memphis, Tennessee 38113-0327, USA Website: www.drexchem.com

Drexel Chemical Company recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided 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 between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.