

DREXEL DIMETHOATE LV-4

SECTION 1: MATERIAL IDENTIFICATION

Product Name: Drexel Dimethoate LV-4
EPA Reg. No.: 19713-665
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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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:

Pictograms:

DANGER



Classifications:
Hazard Class:

<u>Toxicity Study:</u>	<u>Category:</u>
Acute Toxicity, Oral	Category 4
Skin corrosion/ irritation	Category 2
Serious eye damage / Irritation	Category 2B
Specific Target Organs: Single	Category 1
Specific Target Organs: Repeated	Category 2
Flammable Liquid:	Category 4
Hazard to Aquatic Environment, short term (Acute)	Category 2

Hazard Statements:

<u>H Code:</u>	<u>Statement:</u>
H302	Harmful if swallowed
H315	Causes skin irritation
H320	Causes eye irritation
H370	Causes damage to nervous system
H373	May cause damage to nervous system through prolonged or repeated exposure
H401	Toxic to Aquatic life
H227	Combustible Liquid

Precautionary Statements:

Prevention: 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.
 Do not breathe 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.
Keep away from flames/hot surfaces.

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. Call poison center/doctor. Specific treatment, see Note to Physician, Section 4.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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	O,O-dimethyl-S-[(methylcarbamoyl)methyl]phosphorodithioate	60-51-5	200-480-3	TE1750000	41.7%
Inert Ingredients:	N/A	N/A	N/A	N/A	58.3%

SECTION 4: FIRST-AID MEASURES

Have the product container or label 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: Atropine is antidotal only if symptoms of cholinesterase inhibition are present. Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. **CONTAINS AN ORGANOPHOSPHATE THAT INHIBITS CHOLINESTERASE.**

Treatment should be directed at the control of symptoms and clinical condition.
 Dimethoate is an organophosphate insecticide/miticide.

SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Media: Use foam, dry chemical, carbon dioxide, or water fog when fighting fires involving this product. 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. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.

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: Combustible 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): Combustible
 Flash point: 147°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.



SAFETY DATA SHEET

Environmental Precautions:

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: Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers.

Large spills: 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. Use with adequate ventilation. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. 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.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

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

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.

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.

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.



SAFETY DATA SHEET

Respiratory Protection: Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full face piece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Reported Value
Physical State	Liquid
Appearance / Color	Yellow
Odor	Slight pungent odor / Organophosphate
Odor threshold	Not available
pH	2.5 – 3.5
Melting point/Freezing point	Freezing point: 28°F
Boiling point	Not available
Flash point	147°F (Combustible)
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	9.59 lbs. / gals.
Solubility in water	Emulsifies
Solubility in organic solvents	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	40 cps @21°C
% Volatiles	<20%
Explosive properties	Not available
Oxidizing properties	Not available
Dissociation Constant	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Thermally stable at typical use temperatures and in closed containers.
Chemical Stability:	It is strongly advised not to heat this product above 95°F/35°C. Above 176°F/80°C the product will decompose rapidly, significantly increasing the risk of inducing explosions. The increased heat from decomposition can raise the temperature further and accelerate decomposition.
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.



SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Potential routes of exposure/potential health effects: Ingestion, Skin contact, Eye contact, Inhalation

Acute Oral:	LD₅₀ (Rat):	550 mg/kg
Acute Dermal:	LD₅₀ (Rat):	>2,000 mg/kg
Acute Inhalation:	LC₅₀, 4h, (Rat):	>5.42 mg/L
Eye Irritation:	(Rabbit):	Moderately irritating
Skin Irritation:	(Rabbit):	Slight irritant
Skin Sensitization:	(Guinea Pig):	Non-sensitizer

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

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

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. Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

ECO-ACUTE TOXICITY

Aquatic Toxicity:	Rainbow Trout, 96-hr, LC₅₀	30.2 ppm
	Daphnia magna, 48-hr, LC₅₀	2.5 ppm
Arthropod Toxicity:	Bees, 24-hr, Acute LD₅₀	0.12 µg/bee (topical)
		0.15 µg/bee (oral)
Bird Toxicity:	Mallard Duck , LD₅₀	41.7 mg/kg

Persistence and degradability: Readily biodegradable, undergoes rapid degradation in the environment.

Bioaccumulation: Not established

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: Packages < 2.4 gallons Not Regulated
 Packages ≥ 2.5 gallons UN 3018, Organophosphorus pesticides, liquid, toxic, (Dimethoate), 6.1, PG-III, RQ 10 lbs., Marine Pollutant

IMDG: UN 3018, Organophosphorus pesticides, liquid, toxic, (Dimethoate), 6.1, PG-III, RQ 10 lbs., Marine Pollutant

IATA / ICAO: UN 3018, Organophosphorus pesticides, liquid, toxic, (Dimethoate), 6.1, PG-III, RQ 10 lbs.

UN Identification No.: UN 3018
Proper Shipping Name: Organophosphorus pesticide, liquid, toxic
Hazard Class: 6.1
Packing Group: III
Reportable Quantity: 10 lbs.
Environmental Hazard: Marine Pollutant
Freight Description: Agricultural insecticide, liquid, n.o.s.
ERG Guide No.: 152
Transport Information Note: This product can not be transported in the same transport vehicle/ vessel/ container with any Class 5 or Class 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 is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR1910.1200.

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.: 19713-665
FIFRA Label Signal Word: CAUTION
FIFRA Label Information: KEEP OUT OF REACH OF CHILDREN
FIFRA Label Information: Hazards to Humans and Domestic Animals
 CAUTION: Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Remove and wash contaminated clothing before reuse.

EPCRA SARA Title III Classification:

Section 302:	Extremely Hazardous Substance Notification:	Dimethoate (CAS NO.: 60-51-5), 500 -10,000 lbs.
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)

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



Date Issued: 08/08/2019

Supersedes: 08/03/2017

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):

No data available

SECTION 16: OTHER INFORMATION

Date Issued: August 8, 2019 Date Supersedes: August 3, 2017 Revision: 0

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.