



SAFETY DATA SHEET

DREXEL CHLORPYRIFOS 15G AGRICULTURAL INSECTICIDE

Section 1: Material Identification

Product Name: Drexel Chlorpyrifos 15G Agricultural Insecticide

EPA Reg No.: 19713-505

CAS NO: 2921-88-2

Formula: C₉H₁₁ClNO₃PS

Company: Drexel Chemical Company
1700 Channel Avenue
Memphis, TN 38106

Synonyms: O,O-Diethyl O-3, 5, 6-trichloropyridin-2-yl phosphorothioate

Identifiers:
EINECS: 220-864-4
RTECS: TF6300000
DOT information: See Section 14 for Transportation Information

Emergency Telephone Number:

CHEMTREC	Drexel Chemical Co.
Tel: 1-800-424-9300	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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see **Section 15. REGULATORY INFORMATION** for explanation.

Section 2: Hazard Identification (As defined by the OSHA Hazard Communication Standard, 29)

GHS classification:

Health hazards:	Acute toxicity – inhalation	Category 2
	Skin corrosion/irritation	Category 2
	Eye damage/ irritation	Category 2B
	Specific target organ toxicity – (single exposure)	Category 1
	Specific target organ toxicity – (repeated exposure)	Category 2
	Aquatic acute toxicity	Category 1

GHS label elements:

Signal Word:

DANGER



Hazard Statements:

Toxic if swallowed.
Fatal if inhaled.
Causes skin irritation.
Causes eye irritation.
Causes damage to nervous system.
May cause damage to nervous system through prolonged or repeated exposure.
Very toxic to aquatic life.

Precautionary Statements:

Prevention:

Prevention Wash thoroughly after handling.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber (“nitrile” or “NBR”) or Polyvinyl chloride (“PVC” or “vinyl”).
Wear respiratory protection. Use a respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
Do not eat, drink or smoke when using this product.
Use only outdoors or in well-ventilated area.
In case of inadequate ventilation wear respiratory protection.
Avoid release to the environment from other than intended use.

Response:

If swallowed: Immediately call a poison control center/doctor. Rinse mouth. See **Section 4: Note to Physician.**
If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. If skin irritation occurs; Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor if person stops breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed: Call poison center/doctor. Specific treatment see **Note to Physician, Section 4.**
Get medical attention if you feel unwell.
Collect spillage.

Storage:

Store locked up. Store in well-ventilated place.
Keep cool.
Keep container tightly closed.

Disposal:

Disposal of contents/container must be in accordance with your local or area regulations.

Section 3: Composition Information

<u>Components</u>	<u>CAS No.:</u>	<u>% By Wt.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Active Ingredient: Chlorpyrifos	2921-88-2	15.0%	N/Av	0.2 mg/m ³
Inert Ingredients:	N/A	85.0%	N/A	N/A

Section 4: First-Aid Measures

Have the product container or label with you when calling a poison control center or doctor.

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 eyes for at least 10 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Rinse out mouth then have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have product label with you when calling a poison control center or doctor.

Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands.

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.

Note to Physician: This product contains an organophosphate that inhibits cholinesterase. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe, acute poisoning, use antidote immediately after establishing an open airway and respiration. Contains petroleum distillate. Do not induce vomiting since vomiting may cause aspiration pneumonia.

Section 5: Fire Fighting Measures

Fire Hazards: Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): N/A

Flash point: None

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

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.

Firefighting 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.

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.

Hazardous Combustion Products: Hydrogen chloride, ethyl sulfide, diethyl sulfide, nitrogen oxides, carbon oxides, irritating fumes and smoke.

NFPA: Health: Flammability: Reactivity:

2 1 0

(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

Section 6: Accidental Release Measures

Steps to be taken if Material is Released or Spilled:

Sweep as much material as possible, keeping dust to a minimum and place in an approved chemical waste container. Wash the spill area with water containing a strong detergent, absorb with earth, sand or absorbent material and sweep up and place in approved chemical waste container. For large spills contact Drexel Chemical Co. See **Section 13, Disposal Considerations**, for additional information.

Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to **Section 7, Handling** for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to **Section 8, Exposure Controls and Personal Protection**.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See **Section 12, Ecological Information**.

Section 7: Handling and Storage

KEEP OUT OF REACH OF CHILDREN

General Handling: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Use with adequate ventilation. Wear chemical protective equipment when handling. Keep away from heat, sparks and flame. See **Section 8, Exposure Controls and 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

Exposure Limits: TLV Chlorpyrifos 0.2 mg/m³

Personal Protection:

Eye/Face Protection: Wear safety glasses with side shields or chemical splash goggles to prevent dust from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

Skin Protection: Wear long-sleeved shirt, long pants and shoes plus socks. Safety shower should be located in immediate work area. Remove contaminated clothing immediately after handling this product, 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.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").

Respiratory Protection: Not normally required. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. 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).

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

Engineering Controls:

Ventilation: 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 and eyewash facility and safety shower.

Section 9: Physical and Chemical Properties

Physical State:	Granule
Color:	Brown
Odor:	Mild
Flash Point:	None
Vapor Pressure (mmHg):	N/A
Boiling Point:	N/A
Vapor Density (air = 1):	N/A
Bulk Density (H₂O = 1):	46.43 lbs./ft ³
Freezing Point:	N/A
Solubility in water:	Insoluble
pH:	N/A
Viscosity:	N/A
% Volatiles:	>3%

Section 10: Stability and Reactivity

Stability/Instability: Avoid heating above 60°C (100°F). Chlorpyrifos undergoes exothermic decomposition at approximately 130°C (266°F), which can lead to higher temperatures and violent decomposition if generated heat is not removed.

Conditions to Avoid: Keep this product away from excessive heat and moisture.

Incompatible Materials: Avoid contact with strong alkalies, amines and oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition: Decomposition products can include but are not limited to: Hydrogen chloride, ethyl sulfide and nitrogen oxides.

Section 11: Toxicological Information

Data presented for technical Chlorpyrifos:

Acute Toxicity

Ingestion:

- Oral LD50, (rat): 223 mg/kg

Dermal:

- Dermal LD50, (rabbit): >5,000 mg/kg

Inhalation:

- LC50, (rat): > 0.2 mg/l

Eye Irritation (rabbit):

- Slight irritation resolved within 24 hours

Skin Irritation (rabbit):

- Mild irritation resolved within 7 days

Sensitization Skin:

- Non-sensitizer (Guinea Pig)

Carcinogenicity:

- Not likely to be carcinogenic in humans

Teratogenicity, mutagenicity, and other reproductive effects: None known

Section 12: Ecological Information

Data presented for the active ingredient Chlorpyrifos:

ENVIRONMENTAL FATE:

- Very highly toxic to fish, highly toxic to daphnia, moderately to highly toxic to birds and serious hazard to Honeybees.

Persistence and Degradability:

- Moderately persistent in soils degrading slowly through aerobic and anaerobic metabolism. Absorbs strongly to soil particles and is not readily soluble in water.

Aquatic Toxicity:

- Rainbow Trout: 96 hour LC50: (0.007 – 0.051 mg/L)
- Bluegill Sunfish: 96 hour LC50: (0.002 – 0.010 mg/L)
- Daphnia magna: 48 hour EC50: (1.7 µg/L)

Bees:

- LD50: (oral) 360 ng/bee; (contact) 70 ng/bee

Bird Toxicity:

- Mallard Duck: 8-day LC50: 180 ppm
- Bobwhite Quail: 8-day LC50: 423 ppm

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-3077, Environmentally hazardous substances, solid, n.o.s., (Chlorpyrifos), 9, PG III, Marine Pollutant, RQ 1 lb.

IMDG: UN-3077, Environmentally hazardous substances, solid, n.o.s., (Chlorpyrifos), 9, PG III, Marine Pollutant, RQ 1 lb.

IATA: UN-3077, Environmentally hazardous substances, solid, n.o.s., (Chlorpyrifos), 9, PG III, Marine Pollutant, RQ 1 lb.

Freight description: Agricultural Insecticide, solid, n.o.s.

ERG Guide No.: 171

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 CFR 1910.1200.
- **EPA FIFRA INFORMATION:**
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain 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 chemical. The hazard information required on the pesticide label is listed out below. The pesticide label also includes other important information, including directions for use.
- **EPA/CERCLA Reportable Quantity:** Chlorpyrifos RQ = 1 lb.

SARA/TITLE III:

- **Section 302. Extremely Hazardous Substance Notification:** This material is not known to contain any Extremely Hazardous Substances.
- **Section 311/312. Hazard Categories:** Fire Hazard
Immediate health hazard
Chronic health hazard
- **Section 313. Toxic Chemical(s):** This material is not known to contain any Toxic Chemical constituents.
- **RCRA Waste Code:** Not applicable

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

- This product is not listed.

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

Section 16: Other Information

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 below. 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.

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