



SAFETY DATA SHEET

DREXEL DIURON 80 HERBICIDE

Section 1: Material Identification

Product Name: Drexel Diuron 80 Herbicide
EPA Reg No.: 19713-274
CAS NO: 330-54-1
Formula: $C_9H_{10}Cl_2N_2O$
Company: Drexel Chemical Company
1700 Channel Avenue
Memphis, TN 38106

Identifiers:
EINECS: 206-354-4
RTECS: YS8925000
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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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 inhalation	Category 4
	Eye damage/irritation	Category 2B
	Specific target organ toxicity – repeated exposure	Category 2
Physical hazards:	Aquatic toxicity - acute	Category 1
	Aquatic toxicity - chronic	Category 1

GHS label elements:
Signal word: Warning



Hazard statements:

Harmful if inhaled.
 Causes eye irritation.
 May cause damage to organs (blood, urinary system, bladder) through prolonged or repeated exposure.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

Avoid breathing dust. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.
 Wear eye protection/face protection (see Section 8).
 Avoid release to the environment. Prevent from entering into ditches, sewers, waterways and/or groundwater.
 See Section 12, Ecological Information.

Response:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call Poison Control Center or Doctor if you feel unwell.
If in eyes: 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 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
 Get medical attention/advice if you feel unwell.
 Collect spillage.

Storage:

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

Disposal:

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

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:				
Diuron	330-54-1	80.0%	N/Av	10 mg/m ³
Inert ingredients:	N/A	20.0%	N/A	N/A

Section 4: First-Aid Measures

Have the container or label with you when calling a poison control center or doctor, or going for treatment.

If in Eyes: 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. Rinse out mouth with water. 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 or convulsing person. Have product label with you when calling a poison control center or doctor.

If on Skin or Clothing: 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.

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: N/A

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 dust 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: Carbon oxides, nitrogen oxides, halogenated compounds, 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 up 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

Handling: **General Handling:** Avoid contact with eyes, skin, and clothing. When using do not eat, drink or smoke. Wash thoroughly with soap and water after handling. Do not swallow. Avoid breathing dust. Use with adequate ventilation. Wear long-sleeved shirt, long pants, shoes and socks when handling. Keep away from heat, sparks and flame. See Section 8, Exposure Controls and Personal Protection.

Storage: Store in a cool, dry, well 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 Diuron 10 mg/m³

Personal Protection:

Eye/Face Protection: Wear dust proof chemical splash goggles to prevent dust or mists 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: 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.

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: 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 or mists 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 thoroughly with soap and water 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:	Solid granules
Color:	Light beige
Odor:	Slight
Flash Point:	N/A
Vapor Pressure (mmHg):	N/A
Boiling Point:	N/A
Vapor Density (air = 1):	N/A
Bulk Density (H₂O = 1):	38.83 lb/ft ³
Freezing Point:	N/A
Solubility in water:	Dispersible
pH:	6.0-8.0 (5% emulsion at 20°C)
Viscosity:	N/A

Section 10: Stability and Reactivity

Stability/Instability: Stability/Instability: Stable at typical use temperatures and in closed containers.

Conditions to Avoid: Avoid heat or open flame. Avoid high temperatures above 130°F (54.4°C).

Incompatible Materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition: Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, ammonia and halogenated compounds.

Section 11: Toxicological Information

Acute Toxicity

Ingestion:

- Oral, LD50, (rat): >5,000 mg/kg

Dermal:

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

Inhalation:

- Inhalation, LC50, 4.5 h, (rat): >2.5 mg/l

Eye Irritation (rabbit):

- Moderately irritating

Skin Irritation (rabbit):

- Non-irritating

Sensitization Skin:

- Non-sensitizer (guinea pig)

Chronic Toxicity: Animal tests at high dosage levels showed anemia, bladder effects and spleen effects.

Carcinogenicity: Likely human carcinogen (EPA 10/2/14). None of the components of Diuron 80 DF are listed by IARC, NTP or OSHA as carcinogenic.

Teratogenicity, mutagenicity, and other reproductive effects: Animal testing did not show any effects on fertility, showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. Not mutagenic.

Section 12: Ecological Information

Ecotoxicological data: The information presented here is for the active ingredient, Diuron.

ENVIRONMENTAL FATE:

- This product is slightly toxic to birds, aquatic invertebrates and bees.

Persistence and Degradability:

- Moderately to high persistence in soil. Stable in water. Mobile in soil. Will leach.

Aquatic Toxicity:

- Rainbow Trout, 96 hour, LC50: 1.95 ppm
- Bluegill, 96 hour, LC50: 2.8 ppm
- Daphnia magna, 48 hour, EC50: 1.4 ppm
- Algae, 72h, EC50: 0.018 mg/L

Arthropod Toxicity:

- Bees, acute, LD50: >145 µg/bee

Bird Toxicity:

- Bobwhite Quail, LD50: 1,104 mg/kg
- Mallard Duck, LD50: >2000 mg/kg

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:

- <125 lb.: Non-regulated
- ≥125 lb.: UN 3077, Environmentally hazardous substances, solid, n.o.s. (Diuron), 9, PG-III, RQ 100 lbs.

IMDG: UN 3077, Environmentally hazardous substances, solid, n.o.s. (Diuron), 9, PG-III, RQ 100 lbs., Marine Pollutant

IATA: UN 3077, Environmentally hazardous substances, solid, n.o.s. (Diuron), 9, PG-III, RQ 100 lbs.

Freight description: Agricultural Herbicide, 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

- **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:** Diuron - RQ 100 lbs.

SARA/TITLE III:

- **Section 302. Extremely Hazardous Substance Notification:** Not applicable
- **Section 311/312. Hazard Categories:** Acute health hazard; Chronic health hazard
- **Section 313. Toxic Chemical(s):** Diuron (80.0%) (CAS No. 330-54-1)
- **RCRA Waste Code:** Not applicable

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

- This product is 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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