



SAFETY DATA SHEET

DREXEL SIMAZINE 4L HERBICIDE

Section 1: Material Identification

Product Name: Drexel Simazine 4L Herbicide
EPA Reg No.: 19713-60
CAS NO: 122-34-9
Formula: C₇H₁₂ClN₅
Company: Drexel Chemical Company
 1700 Channel Avenue
 Memphis, TN 38106

Identifiers:
EINECS: 204-535-2
RTECS: XY5250000
DOT label: See Section 14

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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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	Acute toxicity - oral	Category 4
	Acute toxicity - inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Eye damage/irritation	Category 2B
	Hazardous to the aquatic environment – acute hazard	Category 3
GHS Label Elements		
Signal word	Warning	



Hazard statement

Harmful if swallowed.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
Harmful to aquatic life.

Precautionary statement

Prevention

Do not eat, drink or smoke when using this product.
Avoid breathing vapors or mist.
Use only outdoors or in a well-ventilated area.
Wash exposed skin thoroughly after handling.
Wear protective gloves.
Avoid release to the environment.

Response

If swallowed: Call a poison control center or doctor if you feel unwell. Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call Poison Control Center or Doctor if you feel unwell.
If on skin: Wash with plenty of water. If skin irritation occurs; Get medical advice/attention. Take off contaminated clothing and wash before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a cool, dry, well ventilated, and secure area designated specifically for pesticides and away from heat sources.

Disposal

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.

Section 3: Composition Information

<u>Components</u>	<u>% By Wt.</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Active Ingredient: Simazine	42.1%	N/Av	N/Av
Inert Ingredients:	57.9%	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 or going for treatment.

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 after handling. Do not swallow. Avoid breathing vapor. Use with adequate ventilation. Wear long-sleeved shirt, long pants and boots with 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: PEL (8-Hour TWA) N/A

Personal Protection:

Eye/Face Protection: Wear safety glasses with side shields or chemical splash goggles to prevent vapors 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: Wear long-sleeved shirt, long pants and boots with socks. 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 handling in enclosed areas, when large quantities of mists are generated or prolonged exposure is possible. 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: Handle this product in a well ventilated area. 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:	Liquid
Color:	White to off-white
Odor:	Mild
Flash Point:	N/A
Vapor Pressure (mmHg):	N/Av
Boiling Point:	N/Av
Vapor Density (air = 1):	N/Av
Bulk Density (H₂O = 1):	9.5 lbs. /gal.
Freezing Point:	N/Av
Solubility in water (wt. %):	Miscible
pH:	6 (5% aqueous solution at 23°C)
Viscosity:	5 -7.5

Section 10: Stability and Reactivity

Stability/Instability:	Stable at typical use temperatures and in closed containers.
Conditions to Avoid:	Avoid heat of 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): >2,000 mg/kg.

Dermal:

- Dermal LD50, (rat): >2,000 mg/kg.

Inhalation

- Inhalation LC50, Aerosol, (rat): >2.58 mg/l.

Eye Irritation: (rabbit):

- Moderately irritating.

Skin Irritation (rabbit):

- Moderately irritating.

Sensitization Skin:

- Non-sensitizer (guinea pigs).

Chronic Toxicity:

- Simazine: Decreased survival at high doses (rat).

Carcinogenicity:

- Not likely to be carcinogenic in humans.

Teratogenicity, mutagenicity, and other reproductive effects: None known.

Section 12: Ecological Information

The information presented here is for the active ingredient, simazine:

This product is practically nontoxic to birds and aquatic invertebrates. Slightly toxic to fish.

Persistence and Degradability:

- Low bioaccumulation potential. Not persistent in soil. Stable in water. Moderately mobile in soil. Sinks in water (after 24 hr).

Aquatic Toxicity:

- Trout LC50/EC50: >10 ppm.
- Bluegill LC50/EC50: 16 ppm.
- Daphnia Magna Life Cycle MATC: 0.07 mg/L.

Arthropod Toxicity:

- Bees LD50/EC50: >99 µg/bee.

Bird Toxicity:

- Bobwhite Quail (8-day dietary) LC50/EC50: > 10,000 ppm.
- Mallard Duck 8-day dietary) LC50/EC50: > 10,000 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 Classification: Not regulated

IATA: UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Simazine). 9, PG III

IMDG: UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Simazine). 9, PG III, Marine Pollutant

Freight Description: Agricultural Herbicide, liquid, 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 not 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 Label Human Hazard Statements: CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin or swallowed. Avoid contact with eyes, skin or clothing.**
- **EPA/CERCLA Reportable Quantity: None Known**

SARA/TITLE III:

- **Sec 302: Extremely Hazardous Substance Notification:** Not applicable.
- **Sec. 311/312. Hazard Categories:** Acute health hazard
- **Section 313 Toxic Chemical(s):** Simazine (42.1%) (CAS 122-34-9)
- **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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