



SAFETY DATA SHEET

DREXEL TRIZMAX™ HERBICIDE

Section 1: Material Identification

Product Name: Drexel TrizMax™ Herbicide

EPA Reg No.: 19713-688

CAS NO: Metolachlor 51218-45-2
Atrazine 1912-24-9
Mesotrione 104206-82-8

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

Identifiers:

EINECS: Atrazine 217-617-8
Metolachlor 257-060-8

RTECS: Atrazine XY5600000
Metolachlor AN3430000

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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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:	Skin corrosion/irritation	Category 2
	Skin sensitizer	Category 1B
	Carcinogenicity	Category 2
	Specific target organ toxicity – repeated	Category 2
	Eye damage/irritation	Category 2B

GHS label elements:

Signal word: Warning



Hazard statements: Causes eye irritation
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.
Causes skin irritation.
May cause an allergic skin reaction.

Precautionary statements:

Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist, vapors, spray.
Wash hands and face thoroughly after handling.
Wear protective gloves, protective clothing, eye protection.
Contaminated work clothing must not be allowed out of the workplace.

Response: **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.
If exposed or concerned: Get medical advice/attention. Get medical advice if you feel unwell.
If on skin: Wash with plenty of soap and water. **If skin irritation or rash occurs:** Get medical advice. Take off contaminated clothing and wash it before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with local 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:				
Metolachlor	51218-45-2	29.40%	N/Av	N/AV
Atrazine	1912-24-9	11.00%	N/Av	5 mg/m ³
Mesotrione	104206-82-8	2.94%	N/Av	N/Av
Inert Ingredients:	N/A	56.66%	N/A	N/A

Section 4: First-Aid Measures

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 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water 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: There is no specific antidote if this product is ingested. Treat symptomatically.

Section 5: Fire Fighting Measures

Fire Hazards: 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. Flammable hydrogen gas may be formed on contact with incompatible metals. See “Conditions to Avoid,” Section 10.

Flammability classification (OSHA 29 CFR 1910.1200): Non-combustible

Flash point: >200°F

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: Carbon oxides, nitrogen oxides, halogenated compounds, irritating fumes and smoke.

NFPA: Health: Flammability: Reactivity:

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(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:

- Contain spilled material if possible. Small spills: absorb in earth, sand or absorbent material and sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Drexel Chemical Co. for clean-up assistance. 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. Spilled material may cause a slipping hazard. 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: **Special Handling:** Spray solutions of this product should be mixed, stored and applied using only plastic, plastic lined steel, stainless steel or fiberglass/plastic containers. Concentrate should not be stored or maintained in long-term contact with galvanized steel, carbon steel, aluminum, brass or cast iron.
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 shoes with socks when handling. Keep away from heat, sparks and flame. See Section 8, Exposure Controls and Personal Protection.

Storage: Store locked up 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: TWA: (Atrazine) 5mg/m³, (Metolachlor) 5mg/m³, (Mesotrione) 5mg/m³

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: 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 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 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 an eyewash facility and safety shower.

Section 9: Physical and Chemical Properties

Appearance:	Off-white to tan liquid
Odor:	Mild latex paint
Odor threshold:	N/Av
pH:	2.5-4.5 @21°C
Freezing point:	<32°F
Solubility (water):	N/Av
Boiling point:	N/Av
Flash point:	>200°F
Evaporation rate:	N/Av
Flammability:	Non-combustible
Upper/lower flammability or explosive limits:	N/Av
Vapor pressure (mmHg):	N/Av
Vapor density:	N/Av
Density:	9.54 Lbs./gal. @21°C
Partition co-efficient (n-octanol/water):	N/Av
Auto-ignition temperature:	N/A
Decomposition temperature:	N/Av
Viscosity:	500cP @21°C
Explosive properties:	N/A
% Volatiles:	N/Av

Section 10: Stability and Reactivity

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

Conditions to Avoid: Concentrate should not be stored in galvanized steel, carbon steel or aluminum. Brass and/or cast iron fittings should not be used. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless or fiberglass/plastic.

Incompatible Materials: None known

Hazardous Polymerization: Will not occur

Thermal Decomposition: Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, ammonia and halogenated compounds. Flammable hydrogen gas may be formed on contact with incompatible metals. See "Conditions to Avoid" above.

Section 11: Toxicological Information

Based on product of similar composition.

Acute Toxicity:

Ingestion:

- Oral LD50, (rat): 5000 mg/kg

Dermal (rat):

- Dermal LD50 (rat): 5000 mg/kg

Inhalation:

- Inhalation LC50 4 hr. (rat): >2.58 mg/L

Eye Irritation (rabbit):

- Mildly irritating

Skin Irritation (rabbit):

- Moderately irritating

Sensitization Skin (Guinea Pig):

- A skin sensitizer

Carcinogenicity:

- **Atrazine:** Mammary tumors (female Sprague-Dawley rats), sex and strain specific. None observed (male Sprague-Dawley rats, F-344 rats or mice). Listed as IARC Group 3. ACGIH, NTP, OSHA not listed
- **Mesotrione:** Did not show carcinogenic effects in animal experiments. IARC, ACGIH, NTP, OSHA not listed
- **Metolachlor:** Did not show carcinogenic effects in animal experiments. IARC, ACGIH, NTP, OSHA not listed

Chronic Toxicity:

- **Atrazine:** Cardiotoxicity in long term study with high doses (dogs)
- **Mesotrione:** No adverse effect has been observed in chronic toxicity tests
- **Metolachlor:** No adverse effect has been observed in chronic toxicity tests

Teratogenicity, mutagenicity, and other reproductive effects: None known

- **Atrazine:** None observed
- **Mesotrione:** Did not show reproductive effects in animal experiments
- **Metolachlor:** Did not show reproductive effects in animal experiments.

Section 12: Ecological Information

Environmental Fate:

- The information presented here is for the active ingredient Atrazine:

- Low bioaccumulation potential. Not persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 hr.).
- **The information presented here is for the active ingredient Mesotrione:**
 - The substance has low potential for bioaccumulation. Mesotrione has medium to high mobility in soil.
- **The information presented here is for the active ingredient Metolachlor:**
 - Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water (after 24 h).

Ecotoxicological data:

- **Atrazine:** Slightly toxic to birds, aquatic invertebrates and bees.
- **Metolachlor:** Non-toxic to birds and bees, moderately toxic to fish and toxic to some aquatic plants.

Aquatic toxicity:

- **Atrazine:**
 - Rainbow Trout 96 hour LC50: 4.5 ppm
 - Bluegill 96 hour LC50: 54.5 ppm
 - Daphnia magna 48 hour EC50: 6.9ppm
 - Green algae 5 day EC50: 49 ppb
- **Metolachlor:**
 - Rainbow Trout 96 hour LC50: 2.0 mg/kg
 - Bluegill 96 hour LC50: 15.0 mg/kg
 - Daphnia magna 48 hour EC50: 25.1 mg/L
 - Green algae 96 hour ErC50: 0.077 mg/l
- **Mesotrione:**
 - Rainbow Trout 96 hour LC50: >120 mg/l
 - Bluegill Sunfish 96 hour LC50: >120 mg/l
 - Daphnia Magna 48 h EC50: 900 mg/l
 - Green Algae 72 hour EbC50: 4.5 mg/l

Bird toxicity:

- **Atrazine:**
 - Bobwhite Quail 12-day LD50: 940 mg/kg
- **Metolachlor:**
 - Bobwhite Quail 8-day LC50: >10,000 ppm

Arthropod toxicity:

- **Atrazine:**
 - Bees acute LD50: >25 µg/bee

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: Not regulated

IMDG: UN 3082, Environmentally hazardous substances, liquid, n.o.s. (Atrazine/Metolachlor), 9, PG-III, Marine Pollutant

IATA: UN 3082, Environmentally hazardous substances, liquid, n.o.s. (Atrazine/Metolachlor), 9, PG-III

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 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: None known

SARA/TITLE III:

- **Sec. 302. Extremely Hazardous Substance Notification:** Not applicable
- **Sec. 311/312. Hazard Categories:** Acute health hazard
- **Sec. 313. Toxic Chemical(s):** Atrazine (11.0%) (CAS No. 1912-24-9)
- **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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