

Date Issued: 08/28/2024 Supersedes: 04/24/2020

DREXEL 2,4-DB DMA 200

SECTION 1: MATERIAL IDENTIFICATION

Product Name: Drexel 2,4-DB DMA 200

EPA Reg. No.: 19713-676 **Product Usage:** Herbicide

Manufacturer: Drexel Chemical Company
Address: 1700 Channel Avenue

PO Box 13327

Memphis, Tennessee, 38113-0327, USA

901-774-4370

Emergency TelephoneCHEMTREC800-424-9300Numbers:DREXEL CHEMICAL COMPANY901-774-4370

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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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:

DANGER



Classifications:

 Hazard Class:
 Toxicity Study:
 Category:

 Acute Toxicity, Oral
 Category 4

Acute Toxicity, Oral

Acute Toxicity, Inhalation

Skin corrosion/ irritation

Serious eye damage / irritation

Hazard to Aquatic Environment, short term (Acute)

Category 2

Category 1

Category 2

Hazard Statements: <u>H Code:</u> <u>Statement:</u>

H302 Harmful if swallowed
 H332 Harmful if inhaled
 H315 Causes skin irritation
 H318 Causes serious eye damage
 H401 Toxic to aquatic life

Precautionary Statements:

Prevention: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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.

Avoid breathing 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.

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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: None available, get medical attention.

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

cool, dry, and secure area designated specifically for pesticides and away from heat sources. Store away from heat (> 100 F) and keep from freezing (< 35 F). Always use oldest

stock first.

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> Active Ingredient:	Synonym:	CAS No.:	EC No.:	RTECS:	<u>% By Wt.:</u>
4-(2,4-Dichlorophenoxy)	N/A	2758-42-1	220-422-0	ES9130000	26.1 %
butyric acid dimethylamine salt Inert Ingredients:	N/A	N/A	N/A	N/A	73.9 %

SECTION 4: FIRST-AID MEASURES

Have the product container, label and / or Safety Data Sheets (SDS) 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:

Treat symptomatically. If medical advice is needed, have product container or label at

hand.

NOTE TO PHYSICIAN: Rinse eye(s) with running water for at least 20 minutes. If only one eye is affected, avoid

washing substance into the unexposed eye. Treat symptomatically. In case of ingestion of concentrate, probable mucosal damage may contraindicate the use of gastric lavage. Repeat doses of activated charcoal are contraindicated if the patient has absent bowel sounds because of the risk of obstruction. Maintain respiration, monitor ECG and blood gases. Correct acidosis with i.v. sodium bicarbonate. Control convulsions with diazepam and treat hypotension with volume replacement and inotropes (e.g., dopamine or dobutamine) as necessary. Monitor CPK for rhabdomyolysis. Forced alkaline diuresis in the

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treatment of severe phenoxy acid poisoning is no longer recommended due to the risk of electrolyte imbalance. Urinary alkalinization is less hazardous. The recommended regimen for urinary alkalinization is as follows: To maintain urine pH greater than 7.5, adults should be given 50 ml boluses of 8.4% sodium bicarbonate i.v. and/or 1 liter of 1.26% sodium bicarbonate plus 40 mmol potassium i.v. over 4 hours. Children should be given 1 ml/kg of 8.4% sodium bicarbonate plus 20 mmol potassium diluted in 500 ml dextrose saline infused at 2 to 3 ml/kg/hour. These guidelines are subject to review and a Poison Control Center should be contacted in each case where treatment is likely to be necessary.

SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Media: Dry chemical, CO₂, Foam, Water fog or fine mist

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entr

Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. If water is used, use a fine water or fog to avoid contamination. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Move container from fire area if this is possible without hazard. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

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: Heat may cause container to expand and rupture. Dense smoke is produced when product

burns.

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

Flash point: >100°F

4-Extreme

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

Hazardous Combustion

Products:

Decomposition products can include and are not limited to: Carbon monoxide, Carbon

2-Moderate

1-Slight

0-Insignificant

dioxide, Chlorine containing compounds.

National Fire Protection Association:

Ratings:

NFPA:	Health	Fire	Reactivity
200	2	0	0

3-High

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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.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. 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: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable

and properly labeled containers. Prevent entry into waterways, sewers, basements or confined areas.

Large spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable

and properly labeled containers. 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. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Use with adequate ventilation. Wear chemical protective equipment when handling. 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. Always use oldest stock

first.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Components:	OSHA PEL	ACGIH TLV
4-(2,4-Dichlorophenoxy)	N/A	N/A
butyric acid dimethylamine salt		

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. 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 / station and safety shower. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

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Personal Protection:

Eye/Face Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in **Protection**: regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes.

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, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as the instructions / specs provided by the supplier of gloves.

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.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. 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).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property Reported Value

Physical State Liquid

Appearance / Color Yellow to Amber
Odor Mild amine-like odor

Odor threshold Not available pH 8.5 – 9.5 Melting point Not available

Freezing point 5° F

Boiling point Not available >212° F Flash point **Evaporation rate** Not available Flammability Not available Upper flammability/explosive limits Not available Not available Lower flammability/explosive limits Not available Vapor pressure Vapor density Not available

Relative density @ 20° C Approximately 9.05 lbs. / gal.

Solubility in water Not available Solubility in organic solvents Not available Not available Partition coefficient (n-octanol/water) Not available Auto-ignition temperature Decomposition temperature Not available Viscosity @ 20° C 23.8 cP Explosive properties Not available Oxidizing properties Not available

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Dissociation Constant Not available % Volatiles Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermally stable at typical use temperatures and in closed containers.

Chemical Stability: Stable under recommended storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid contact with strong oxidizers.

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

Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and the presence

of other materials. Decomposition products can include and are not limited to:

Carbon monoxide, Carbon dioxide, Chlorine containing compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

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

Eye Irritation:(Rabbit):All irritation cleared in 7 daysSkin Irritation:(Rabbit):No irritation at 27 and 72 hours

Skin Sensitization: (Guinea Pig): No data available

Chronic Toxicity: No data available

Carcinogenicity: No component of this product present at levels greater than 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Mutagenicity: No data available.

Teratogenicity: No data available.

Reproductive Toxicity: In laboratory animals, excessive doses toxic to the parent animals caused specific

developmental abnormalities, decreased weight and survival of offspring.

Developmental Toxicity: Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not

cause birth defects in laboratory animals. Studies in laboratory animals with 2,4-D have shown decreased fetal body weights and delayed development in the offspring at doses

toxic to mother animals.

Genetic Toxicity: In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity

studies were predominantly negative.

Specific target organ toxicity- single exposure: No data available / Not classified

Repeated Dose Toxicity: In animals, effects have been reported on the following organs: Liver, Kidney,

Gastrointestinal tract, Muscles. Observations in animals include: Gastrointestinal irritation,

Vomiting.

Specific target organ toxicity- repeated exposure: No data available / Not classified

Other Hazards Effects: No data available.

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SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

4-(2,4-Dichlorophenoxy) butyric acid dimethylamine salt

ECO-ACUTE TOXICITY

Aquatic Toxicity: Rainbow Trout, LC₅₀ 96 hour 1.97 mg/L Bluegill Sunfish, LC₅₀ 96 hour 13 mg/L

Daphnia magna, LC₅₀ 48 hour 25 mg/L

Arthropod Toxicity: Bees, Acute LD₅₀ 14.5 ug/bee

Bird Toxicity: Mallard Duck, LD₅₀ No data available.

Bobwhite Quail, LD₅₀ No data available.

Dietary studies indicate 2,4-DB acid is practically non-toxic (>5000 ppm respectively) to

waterfowl and upland game birds.

Algal Toxicity: Green Algae, EC₅₀ 96 hour 1.1 mg/L

Soil Organism Toxicity: Earthworm acute toxicity No data available.

Persistence and degradability: No data available
Bioaccumulation: No data available
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

IDOT: Not Regulated MDG: Not Regulated IATA / ICOA: Not Regulated

Freight Description: Agricultural herbicide, liquid, n.o.s.

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.

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SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication

Standard:

This product contains hazardous components as defined under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200.

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.: 19713-676 **FIFRA Label Signal Word:** DANGER

FIFRA Label Information: KEEP OUT OF REACH OF CHILDREN
Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Remove and wash

contaminated clothing before reuse.

EPCRA SARA Title III Classification:

Section 302: Extremely Hazardous Substance

This material is not known to contain any

Notification: Extremely Hazardous Substances.

Sections 311 and 312: Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: Yes

Fire Hazard: No Reactive Hazard: No

Sudden Release of Pressure Hazard: No

Section 313 Toxic Release Inventory (TRI): This material does not contain any chemical components with

known CAS numbers that exceed the threshold reporting levels

established by SARA Title III, Section 313.

CWA (Clean Water Act): This product does not contain any substances regulated as

pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

CFR 122.42)

CERCLA/SARA 304 Reportable Quantity (RQ): This material, as supplied, does not contain any substances

regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to

releases of this material.

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):

This product does not contain any Proposition 65 chemicals.

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SECTION 16: OTHER INFORMATION

Date Issued: August 28, 2024 Date Supersedes: April 24, 2020 Revision: 1

For all non-emergency questions about 1700 Channel Avenue Phone: 901-774-4370 **this product, please contact:** 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.

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