



SAFETY DATA SHEET

DREXEL X[®] 25-0-0 PLUS 0.5% BORON

Section 1: Material Identification

Product Name: Drexel X[®] 25-0-0 Plus 0.5% Boron

GHS product identifier: Controlled release nitrogen solution

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

Recommended use: Fertilizer

Recommended restrictions: None available

Synonyms: None available

Emergency Telephone Number:

ChemTrec	Drexel Chemical Company
Tel: 1-800-424-9300	901-774-4370

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

GHS classification:

Health hazards:	Skin corrosion/irritation	Category 3
	Eye damage/eye irritation	Category 2B
	Acute toxicity	Category 4

GHS label elements:

Signal word: Warning



Hazard statement: Causes mild skin irritation.
Causes eye irritation.
Harmful if swallowed.
May cause respiratory irritation.

Precautionary statement:

Prevention: Wash thoroughly after handling.
Avoid breathing dust/fumes/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear eye protection, face protection, protective clothing, and protective gloves.

Response: If skin irritation occurs get medical advice/attention.
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.
IF ON SKIN OR CLOTHING: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
IF SWALLOWED: Rinse mouth. Call poison center or doctor/physician if you feel unwell.

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

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific hazards: If ingestion occurs, symptoms include sore throat, mouth and stomach irritation. Larger ingestion amounts beyond listed exposure limits may cause defects to the central nervous system.

Section 3: Composition Information

<u>Components</u>	<u>CAS No.</u>	<u>% By Wt.</u>
Active Ingredients:		
Urea, methylene urea and boric acid complex	Proprietary	100.0%
Boron (B)		0.5%

Total nitrogen: 25.0%
(18.8% urea nitrogen, 6.2% other water soluble nitrogen)

Section 4: First-Aid Measures

Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Call poison control center or doctor for treatment advice.

Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Inhalation: Move person to fresh air; If not breathing call 911 and give artificial respiration. Call poison control center or doctor for treatment advice.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Section 5: Fire Fighting Measures

Suitable extinguishing media: Product is not flammable. Use appropriate media for surrounding fire.

Specific hazards arising from the chemical: None known

Protective equipment and precautions for firefighters: Assure self-contained breathing apparatus is worn. Fight fire from upwind. Prevent runoff if possible.

Section 6: Accidental Release Measures

Personal Precautions:

- Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. 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 further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment: Stop the flow of material, if this is without risk. Collect and dispose of spillage as indicated in section 13. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Pick up spills with absorbent material and place in suitable properly labeled containers.

Section 7: Handling and Storage

Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Storage: Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

Section 8: Exposure Controls / Personal Protection

Occupational exposure limits: TLV: 10 mg/m³

Engineering controls:

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.

Personal protective equipment:

Eye/Face Protection: Use chemical goggles

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.

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. 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.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Colorless
Form:	Liquid
Odor:	Mild ammonia

Odor threshold:	Not available
pH:	9.0 – 10.0
Melting/freezing point:	30°F
Boiling point:	>212°F
Flash point:	>200°F (Not combustible)
Evaporation rate:	Not available
Flammability:	Not available
Flammability limits in air, lower:	Not available
Flammability limits in air, upper:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	1.19 – 1.21 g/ml
Solubility:	Complete in water
Octanol/water coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10: Stability and Reactivity

Chemical stability/instability:	Stable at typical use temperatures.
Conditions to avoid:	Extreme temperatures
Incompatible materials:	Strong acids
Possibility of hazardous reactions:	Will not occur
Hazardous decomposition products:	Oxides of carbon, ammonia

Section 11: Toxicological Information

Toxicology data:

Components:

Urea, methylene urea and boric acid complex

Test results:

Acute oral LD50 (rat): No data available

Acute dermal LD50 (rabbit): No data available

Routes of exposure: Skin contact. Eye contact. Ingestion. Inhalation.

Acute effects: Mild skin irritation. Eye irritation. Harmful if swallowed. May cause respiratory irritation.

Sensitization: No data available

Chronic effects: No data available

Carcinogenicity: No data available

Mutagenicity: Non-mutagenic for bacteria and/or yeast

Reproductive effects: No data available

Tetragenicity: No data available

Epidemiology: No data available

Skin corrosion/irritation: Causes mild skin irritation

Eye damage/eye irritation: Causes eye irritation

Specific target organ toxicity - single exposure: Category 3

Specific target organ toxicity - repeated exposure: Not classified

Section 12: Ecological Information

Ecotoxicological data:

Components:

Urea, methylene urea and boric acid complex

Test results:

LC50 Algae: No data available

EC50 Daphnia: No data available

LC50 Fish: No data available

Persistence and degradability: Not established

Bioaccumulation: Not established

Mobility in soil: Not available

Other adverse effects: Avoid release to open bodies of water.

Section 13: Disposal Considerations

Disposal methods: Dispose of in accordance with label instructions and all applicable regulations.

Contaminated packaging: Dispose of in accordance with applicable federal, state and local regulations.

Section 14: Transport Information

In accordance with ICAO/IATA/DOT/TDG:

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard classes: Not regulated

Packing group: Not regulated

Environmental hazards: Not regulated

Transport in bulk: Not regulated

Special precautions: Not available

Freight description: Nitrogen fertilizer solution (25%), liquid, N.O.S.

ERG Guide No.: 171

Section 15: Regulatory Information

International inventories:

TSCA: Complies

EINECS/ELINCS: Complies

ENCS: Complies

IECSC: Complies

KECL: Complies

PICCS: Complies

AICS: Complies

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: No

Reactive Hazard: No

Sudden Release of Pressure Hazard: No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:

- This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Component	CAS No.	% By Weight	SARA 313- Threshold values (%)
No components			

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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