

PRODIAMINE 4SC SELECT™

Safety Data Sheet

Section 1: Product Identification

Product identifier on label: Prodiamine 4SC Select
Use: Herbicide
Manufacturer: ~~WMC~~ ~~Co~~ * @ LLC
11 G A O A I C O U ^ ^ c
Ankeny, IA 50021
Manufacturer Phone: 1-800-247-8013
Emergency Phone: 1-800-222-1222

Section 2: Hazards Identification

Classification:
Skin Sensitizer: Category 1B
Carcinogenicity: Category 2
Specific Target Organ Toxicity: Repeated Category 2
Specific Target Organ Toxicity: Drowsiness Category 3
Eye Damage/Irritation: Category 2B

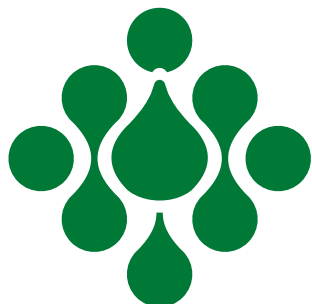
Signal Word (OSHA): Warning

Hazard Statements:
May cause an allergic skin reaction
Causes eye irritation
May cause drowsiness or dizziness
Suspected of causing cancer
May cause damage to organs through prolonged or repeated contact

Hazard Symbols:



Precautionary Statements:
Use only outdoors or in a well ventilated area.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison control center or doctor if you feel unwell.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist, vapors or spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing and eye protection.



PRODIAMINE 4SC SELECT™

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice.

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.

See Section 4 First Aid Measures.

Was contaminated clothing before reuse.

Store this material in a locked storage area.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

Section 3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>Concentration</u>
2,4-dinitro-N ³ ,N ³ -dipropyl-6-(tri-fluoromethyl)-1,3-benzenediamine	Prodiamine	29091-21-2	40.5 %
1,2,3-propanetriol	Glycerine	56-81-5	< 3.0 %
Petroleum Distillates	Trade Secret	Trade Secret	< 12.0 %
Other Inert Ingredients	Trade Secret	Trade Secret	< 44.0 %

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

Section 4: First Aid Measures

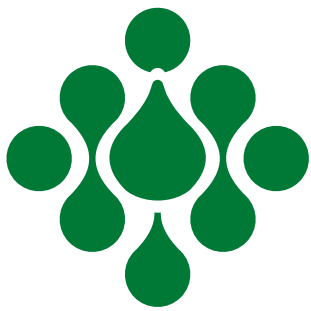
Have the product container, label or safety data sheet with you when calling a poison control center, or doctor, or going for medical treatment.

Ingestion: If swallowed: Call a poison control center (1-800-222-1222) immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center (1-800-222-1222) or doctor for treatment advice.

Skin Contact: If on skin or clothing: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center (1-800-222-1222) or doctor for treatment advice.

Inhalation: 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 (1-800-222-1222) or doctor for treatment advice.



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Most important symptoms/effects:

Eye irritation

Allergic skin reaction

Drowsiness or dizziness

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Section 5: Fire Fighting Measures

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover the entire spill with absorbing material and place into a compatible disposal container. Scrub the area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up the wash liquid with additional absorbent and place into a compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

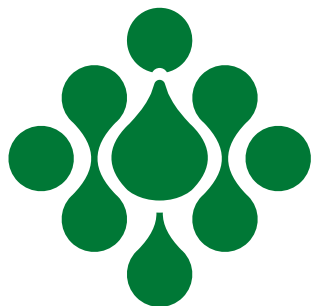
Section 7: Handling and Storage

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverage or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling the material.

Conditions for safe storage, including any incompatibilities:

Store this material in a locked storage area.



PRODIAMINE 4SC SELECT™

Section 8: Exposure Controls/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<u>Chemical Name:</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	<u>Source</u>
Prodiamine	Not Established	Not Established	10 mg/m ³ TWA	PROACTIVE
Glycerine	15 mg/m ³ TWA (total); 5 mg/m ³ (respirable)	10 mg/m ³ TWA (respirable)	None	Not Applicable
Petroleum Distillates	5 mg/m ³ TWA	5 mg/m ³ STEL 10 mg/m ³ TWA (respirable)	None	Not Applicable
Other Ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling the material.

Eye Contact:

Where eye contact is likely, use chemical splash goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

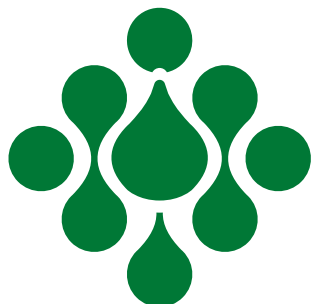
Inhalation:

A respirator is not normally required when handling this material. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH certified respirator with any N, R, P or HE filter.

Section 9: Physical and Chemical Properties

Appearance:	Yellow liquid.
Odor:	Mild chemical odor.
Odor Threshold:	Not Available
pH:	6.79 (1% dispersion in water).
Freezing Point:	Not Available



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Boiling Point:	Not Available
Flash Point:	> 212° F
Flammable Limits:	Not Available
Flammability:	Not Available
Vapor Pressure:	0.0033 mPa @ 25° C (prodiamine).
Vapor Density:	Not Available
Relative Density:	1.184 gm/cm ³ @ 25° C.; 9.88 lbs./gal. @ 25° C.
Autoignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	252 cps @ 25° C; 172 cps @ 40° C
Other:	None

Section 10: Stability and Reactivity

Reactivity:	Not reactive
Chemical Stability:	Stable under normal use and storage conditions.
Possible Hazardous Reactions:	Will not occur
Conditions to Avoid:	Thermal, mechanical and electrical ignition sources.
Incompatible Materials:	None known
Hazardous Decomposition Products:	None known

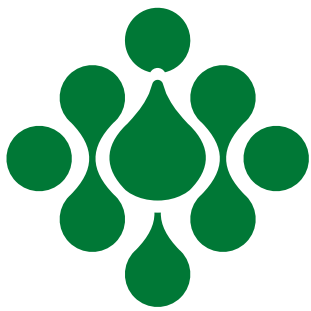
Section 11: Toxicological Information

Health Effects Information:

Likely routes of exposure:	Dermal, Inhalation
Symptoms of exposure:	Eye irritation, Drowsiness or Dizziness.
Delayed, immediate and chronic effects of exposure:	Possible carcinogenicity, eye irritation, allergic skin reaction, drowsiness or dizziness.

Numerical measures of toxicity (acute toxicity/irritation studies on the finished product):

Ingestion:	Oral (LD ₅₀ Rat)	> 5,000 mg/kg body weight
Dermal:	Dermal (LD ₅₀ Rat)	> 5,000 mg/kg body weight
Inhalation:	Inhalation (LC ₅₀ Rat)	> 2.55 mg/l air @ 4 hours
Eye Contact:	Minimally Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Sensitizing (Guinea Pig)	



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Reproductive Development Effects:

Prodiamine: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1 g/kg/day

Chronic/Subchronic Effects:

Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

Carcinogenicity:

Prodiamine: Possible human carcinogen based on limited animal evidence in the absence of human data.

Chemical Name

NTP/IARC/OSHA Carcinogen

Prodiamine	No
Glycerine	No
Petroleum Distillates	No
Other Ingredients	No

Other Toxicity Information:

None

Toxicity of Other Components:

Glycerine: Repeated excessive exposure may cause increased fat levels in blood. Very large doses by oral administration in animal studies indicate kidney, liver and gastrointestinal effects. Inhalation of vapors may cause irritation of the upper respiratory tract.

Petroleum Distillates: Repeated excessive exposure may cause irritation of the skin, eyes and respiratory tract, as well as the potential for a reduction in lung function. Animal studies indicate some evidence of mutagenicity and carcinogenicity.

Other Ingredients: Not Applicable

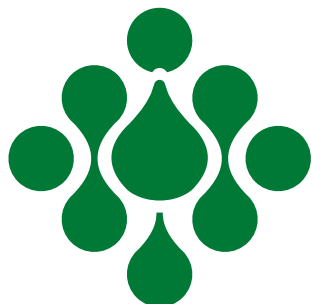
Target Organs:

Prodiamine:	Liver, Thyroid
Glycerine:	Kidney, Liver, Gastrointestinal and Respiratory Tracts.
Petroleum Distillates:	Skin, Eyes, Lung and Respiratory Tract.
Other Ingredients:	Not Applicable

Section 12: Ecological Information

Eco-Acute Toxicity:

Prodiamine:	Fish (Bluegill Sunfish) 96-hour LC ₅₀ > 552 ppb
	Invertebrate (Water Flea) Daphnia Magna 48-hour EC ₅₀ > 83 ppb
	Bird (Bobwhite Quail) 14-day LD ₅₀ > 2,250 mg/kg



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Environmental Fate:

Prodiamine: Does not bioaccumulate.
Persistent in soil.
Stable in water.
Immobile in soil.
Sinks in water (after 24 hours).

Section 13: Disposal Considerations

Disposal: Do not reuse product containers. Dispose of product containers, waste containers and residues according to local, state and federal health and environmental regulations.

Characteristic Waste: Not Applicable.

Listed Waste: Not Applicable

Section 14: Transport Information

DOT Classification:

Ground Transport – NAFTA

Not Regulated

Comments:

Water Transport – International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Prodiamine), Marine Pollutant.

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Prodiamine).

Hazard Class: Class 9

Identification Number: UN 3082

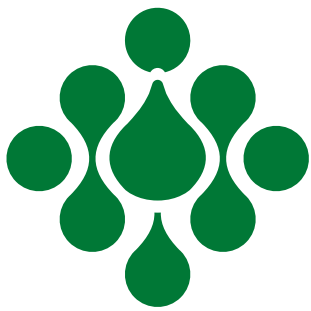
Packing Group: PG III

Section 15: Regulatory Information

Pesticide Registration:

This chemical is a pesticide product registered by the 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 and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

Caution: May be harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.



PRODIAMINE 4SC SELECT™

<u>EPA Registration Number:</u>	4444 JI GEG
<u>EPCRA SARA Title III Classification:</u>	
Section 311/312 Hazard Classes:	Acute Health Hazard Chronic Health Hazard
Section 313 Toxic Chemicals:	None
<u>CERCLA/SARA 304 Reportable Quantity (RQ):</u>	None
<u>RCRA Hazardous Waste Classification (40 CFR 261):</u>	Not Applicable
<u>TSCA Status:</u>	Exempt from TSCA, subject to FIFRA.

Section 16: Other Information

	<u>NFPA Hazard Rating</u>	<u>HMIS Hazard Rating</u>	
Health:	2	2	0 = Minimal
Flammability:	1	1	1 = Slight
Reactivity:	0	0	2 = Moderate
			3 = High
			4 = Severe

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR Part 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as on the effective date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State and Local laws and regulations.

Original Date: February 10, 2010

Revised: December 2, 2015; 01.11.2021 ALB