

1. IDENTIFICATION

Product name: **ProdiaGuard 65 Soluprill**
 Chemical name of active ingredient(s): N3,N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine
 Manufacturer: Makhteshim-Agan of North America
 551 Fifth Avenue, Suite 1100
 New York, NY 10176
 Phone: 212-661-9800
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACIGH TLV
Prodiamine	29091-21-2	65.0	Not established	Not established
Inert ingredients including:		35.0		
Kaolin Clay	1332-58-7		15 mg/m ³ TWA (total); 5 mg/m ³ TWA (respirable)	2 mg/m ³ TWA (respirable)
Crystalline Silica, Quartz	14808-60-7		10 mg/m ³ / (%SiO ₂ +2) (respirable dust)	0.05 mg/m ³ (respirable silica)
Dispersing Agent			Not established	Not established

3. HAZARDS IDENTIFICATIONS**PHYSICAL PROPERTIES**

Appearance: Yellow granules

Odor: Odorless

HAZARDOUS DECOMPOSITION PRODUCTS

Can decompose at high temperatures forming toxic gases.

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS

This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (>680° F[360° C]) can serve as ignition sources for this material.

SYMPTOMS OF ACUTE EXPOSURE

Causes mild eye and skin irritation. Allergic skin reactions are possible.

MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE

None known.

4. FIRST AID MEASURES**FIRST AID****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.

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.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

- IF IN EYES:**
- Hold eye open and rinse slowly and gently with water for 15-20 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: There is no specific antidote if this product is ingested. Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not applicable

UFL: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABILITY: Not applicable

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS

This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (>680° F[360° C]) can serve as ignition sources for this material.

HAZARDOUS DECOMPOSITION PRODUCTS

Can decompose at high temperatures forming toxic gases.

FIRE-FIGHTING PROCEDURES

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. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: 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.

Bulk bags (FIBC) used to contain this material should be either type B or type C. If type C bags are used, make sure they are electrically grounded before powder is discharged from the bag.

Handle this material only in electrically conductive equipment. Electrically ground and bond this equipment as well as any worker who could contact a dust cloud formed of this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form.

PRECAUTIONS TO BE TAKEN IN STORAGE: Do not store or process above 320° F (160° C). Store material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area.

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (>680° F[360° C]) can serve as ignition sources for this material. This material is considered explosion class (Kst) 2. This material can energetically decompose at approximately 383° F (195° C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

INGESTION PROTECTION: 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.

EYE PROTECTION: Where contact is likely, use chemical splash goggles.

RESPIRATORY PROTECTION: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

SKIN PROTECTION: Where contact is likely, wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow granules

ODOR: Odorless

FLASH POINT: Not applicable

pH: 8.0 (5% in deionized water)

MELTING POINT: Not available

BOILING POINT: Not applicable

SPECIFIC GRAVITY/DENSITY: 0.63 g/cm³

SOLUBILITY IN H₂O:

Prodiamine: 0.013 ppm @ 77° F (25° C)

VAPOR PRESSURE:

Prodiamine: <5.6 X 10⁻⁶ mmHg @ 68° F (20° C)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: Thermal, mechanical and electrical ignition sources.

MATERIALS TO AVOID: Oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES (FINISHED PRODUCT)

Acute Oral LD50 (Rat): >5,000 mg/kg - Practically Non-toxic

Acute Dermal LD50 (Rat): >2,000 mg/kg - Slightly Toxic

Acute Inhalation LC50 (Rat): 1.81 mg/L air (4-hours) - Slightly Toxic

Eye Irritation (Rabbit): Mildly Irritating

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Dermal Irritation (Rabbit): Practically Non-Irritation (Rabbit)

Dermal Sensitization (Guinea Pig): Sensitizing (Guinea Pig)

REPRODUCTIVE/DEVELOPMENT EFFECTS

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

CHRONIC/SUBCHRONIC TOXICITY STUDIES

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

CARCINOGENICITY

Prodiamine: Benign thyroid tumors (rat). None observed (mouse).

OTHER TOXICITY INFORMATION

None

TOXICITY OF OTHER COMPONENTS

Dispersing Agent: Exposure can result in eye, skin and respiratory tract irritation.

Kaolin Clay: Long-term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs. Continued long-term exposure may affect respiratory function in some individuals.

TARGET ORGANS

Active Ingredients:

Prodiamine: Liver, thyroid

Inert Ingredients:

Dispersing Agent: Eye, skin, respiratory tract

Kaolin Clay: Lung

12. ECOLOGICAL INFORMATION

Based on active ingredient - Prodiamine.

SUMMARY OF EFFECTS: Highly toxic to fish and invertebrates. Practically non-toxic to birds and bees.

ECO-ACUTE TOXICITY:

Rainbow Trout 96-hour LC50: 0.83 ppm

Bluegill Sunfish 96-hour LC50: 0.55 ppm

Daphnia magna 48-hour LC50: 0.66 ppm

Bobwhite 8-day Dietary LC50: >10,000 ppm

Mallard 8-day Dietary LC50: >10,000 ppm

Bees LC50/EC50: >100 ug/bee

ECO-CHRONIC TOXICITY:

Not available

ENVIRONMENTAL FATE:

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Non-bulk packaging: Not regulated

B/L Freight Classification: Item: 50320 [Compounds, tree or weed killing (herbicides), NOI, other than poison] Class 60

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Bulk packaging (>882 lbs.): Environmentally Hazardous Substances, Solid, N.O.S (prodiamine 65%), 9, UN 3077, PG III, Marine pollutant
B/L Freight Classification: Item: 45617 [Fungicides, Herbicides, Insecticides, or Rodenticides] Class 92.5

INTERNATIONAL TRANSPORTATION

IMO (vessel): Environmentally Hazardous Substances, Solid, N.O.S (prodiamine 65%), 9, UN 3077, PG III, Marine pollutant

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Chronic health hazard (delayed)
Reactivity hazard
Section 313: Not applicable.

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Not listed

TSCA STATUS: Not applicable

16. OTHER INFORMATION

NFPA HAZARD RATINGS	NFPA	HMIS		
HEALTH:	2	2	0	MINIMAL
FLAMMABILITY:	2	2	1	SLIGHT
REACTIVITY:	1	1	2	MODERATE
			3	HIGH
			4	SEVERE

MSDS issued: 06-29-04

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