

MATERIAL SAFETY DATA SHEET

**Nevado® 4F**

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**1. IDENTIFICATION**

Product name: **Nevado® 4F**  
 Chemical name of active ingredient(s): Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide  
 Manufacturer: Makhteshim Agan of North America, Inc.  
 4515 Falls of Neuse Road, Suite 300  
 Raleigh, NC 27609  
 Phone: 919-256-9300  
 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	OTHER	NTP/IARC/OSHA (Carcinogen)
Iprodione	36734-19-7	41.6	NA	NA	NA	NA
Propylene glycol	57-55-6	5.0	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA	NA	NA

NA = Not applicable

**3. HAZARDS IDENTIFICATIONS**

**PHYSICAL PROPERTIES**

Appearance: Emulsion liquid  
 Odor: Slight

**EMERGENCY OVERVIEW:** CAUTION. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, toxic, corrosive fumes are emitted.

**PRIMARY ROUTES OF EXPOSURE:** Routes of entry include eye and skin contact, ingestion and inhalation.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** No specific conditions are known which may be aggravated by exposure to this product.

**SYMPTOMS OF EXPOSURE:**

**Eye:** Causes irritation, redness.  
**Skin:** Harmful if absorbed through skin. Essentially non-irritation.  
**Ingestion:** Harmful if ingested. May cause nausea, vomiting, abdominal pain and loss of coordination.  
**Inhalation:** Harmful if inhaled. Can cause upper respiratory tract irritation.

**4. FIRST AID MEASURES**

FIRST AID	
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> </ul>

- 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.

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

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not applicable.

**FLAMMABLE LIMITS:** Not applicable.

LFL/UFL: Not applicable

**EXTINGUISHING MEDIA:** Use extinguishing method suitable for surrounding fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, toxic, corrosive fumes are emitted.

**FIRE-FIGHTING PROCEDURES:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike areas to prevent runoff and contamination of water sources. Dispose of fire control water later.

## 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Cover entire spill with absorbing material and place into 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 cleaned 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.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store only in original container. Do not contaminate water, food or feed by storage or disposal.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

## 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.**

**EYE PROTECTION:** For splash, mist or spray exposure, wear protective eyewear.

**SKIN PROTECTION:** Long-sleeved shirt, long pants, chemical-resistant footwear plus socks, and chemical-resistant apron (if necessary).

**HAND PROTECTION:** Chemical-resistant gloves such as barrier laminate, butyl rubber (≥14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or Viton (≥ 14 mils).

**RESPIRATOR REQUIREMENTS:** A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH-approved respirator with any N, R, P, or HE filter.

**ADDITIONAL PROTECTIVE MEASURES:** Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### USER SAFETY RECOMMENDATIONS:

Users should:

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- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Refer to product label.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

Appearance: Emulsion liquid

Odor: Slight

**FLASH POINT:** Not applicable.

**pH:** 5.85 ± 0.02

**VISCOSITY (Centistokes):** 250.019 (20°C); 134.617 (40°C).

**DENSITY:** 1.133 g/ml (20°C)

## 10. STABILITY AND REACTIVITY

**STABILITY:** This material is stable under normal handling and storage conditions.

**MATERIALS TO AVOID:** Not compatible with strong bases, strong acids and strong oxidizing agents. Incompatible with 10% potassium permanganate.

**HAZARDOUS POLYMERIZATION:** Not applicable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, toxic, corrosive fumes are emitted.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY/IRRITATION STUDIES:

<b>Oral</b>	LD <sub>50</sub> (Rat): >1,170 mg/kg
<b>Dermal</b>	LD <sub>50</sub> (Rabbit): >2,000 mg/kg
<b>Inhalation</b>	LC <sub>50</sub> (Rat): 3.65 mg/L (4 hours)
<b>Eye Irritation</b>	Non-irritating to minimally irritating (Rabbit)
<b>Dermal Irritation</b>	Slightly irritating (Rabbit)
<b>Dermal Sensitization</b>	Not a contact sensitizer

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This chemical can contaminate surface water through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

## 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

**14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**

Not regulated

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** Not regulated

**IATA (air):** Not regulated

**15. REGULATORY INFORMATION**

**SARA TITLE III CLASSIFICATION:**

**Section 302/304:** Not applicable

**Section 311/312:** Acute Health Hazard (immediate)

**Section 313 chemical(s):** Not applicable

**CA PROPOSITION 65:** This product contains a chemical (lprodione, CAS#: 36734-19-7) known to the state of California to cause cancer.

**CERCLA RQ:** Not applicable.

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**16. OTHER INFORMATION**

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

**MSDS DATE:** 4-15-09. Supersedes version dated 7-5-07. Changes made to sections 13 and 14.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.