



SDS

Talus 70DF
2613-2SDS

Conforms to HazCom 2012/United States

SAFETY DATA SHEET



Talus 70DF

Insect Growth Regulator

Section 1. Identification

GHS product identifier : Talus 70DF Insect Growth Regulator
Other means of identification : Not available.
EPA Registration No. : 71711-21-67690

Supplier's details : SePRO Corporation
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The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2. Hazards identification

Emergency Overview: Caution. Harmful if swallowed. Wash thoroughly with soap and water after handling. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse.

Physical Hazards: None

Potential Health Effects:
Primary route(s) of entry: Inhalation, dermal, ocular, ingestion

Inhalation: Harmful if inhaled.



Dermal: Harmful if absorbed through skin
Eye contact: Causes moderate irritation.
Ingestion: Harmful if swallowed.

Chronic (cancer information): The active ingredient is not classified as a carcinogen by NTP, IARC, or OSHA.

Refer to Section 11 for detailed toxicological information on buprofezin and the other ingredients.

Section 3. Composition/information on ingredients

Chemical Ingredients:	Active Ingredient: Buprofezin	70.57%
	Other Ingredients:	<u>29.43%</u>
	Total:	100.00%

Specific chemical identity of other ingredient(s) and percentage of composition withheld as trade secret.

Chemical Name of

Active Ingredient (CAS): 4H-1,3,5-Thiadiazin-4-one,2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-

CAS Registry No.: 69327-76-0

Section 4. First aid measures

Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor immediately for treatment advice.
Skin Contact	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.
Eye Contact	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.
Ingestion	Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

Section 5. Fire-fighting measures

Fire and Explosion Hazards:	None
Extinguishing Media:	Alcohol-resistant foam, carbon dioxide, dry chemicals, and water spray.
Special Fire-Fighting Procedure:	Firemen should wear positive-pressure, self-contained breathing apparatus.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, nitrogen oxides, and sulfur dioxide.

Section 6. Accidental release measures

General and Disposal:

Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with federal or local disposal regulations (see Section 13). Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity (RQ)). Report to authorities if water enters watercourse or sewer.

Land Spill or Leak:

Evacuate non-essential personnel. Carefully sweep up, place in a metal drum and hold for waste disposal. Avoid raising dust. If a large spill occurs, wear protective clothing and self-contained breathing apparatus to avoid contact. Prevent spills from entering sewers, watercourse, or low areas.

Liquid spills on the floor or other impervious surfaces should be contained or diked and then absorbed with sawdust, sand, bentonite, or other absorbent clay.

Collect contaminated absorbent, and place it in a metal drum. Thoroughly scrub the floor or other impervious surface with a strong industrial-type detergent and rinse with water.

Liquid spills that soak into the ground should be dug up and placed in metal drums. When a large spill or leakage is found, wear protective clothing and respirator to avoid exposure.

Avoid contaminated absorbents or water flow into ponds, rivers, and lakes, due to the danger of acute toxicity to aquatic organisms.

Section 7. Handling and storage

Handling Precautions:

Open container with care. Use adequate ventilation. Avoid handling near an open flame or heat source or ignition source. Do not contaminate water by cleaning of equipment or disposal of waste. Avoid contact with skin, eyes, or clothing. Do not eat, drink, smoke, or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water. Do not use the toilet before thoroughly washing hands. Remove contaminated clothing immediately and wash thoroughly before reuse.

Storage Precautions:

Keep container closed. Store in original container. Keep container at room temperature or store in a cool, dry place. Avoid storage in direct sunlight, excessive heat or cold.

Section 8. Exposure controls/personal protection

Engineering Controls

(Local exhaust): Ventilation may be necessary under certain confined conditions. If practical, use ventilation at the sources of air contamination. Control airborne contaminants below the exposure guidelines (see below for any applicable OSHA / ACGIH exposure limits).

Personal Protective Equipment (PPE): Applicators and other handlers of agricultural products must wear:

Long-sleeved shirt and long pants. Waterproof gloves. Shoes plus socks.



Agricultural Use Requirements
 – for uses of this product that are covered by the Worker Protection Standard 40 CFR Part 170
 - PPE required for early entry into treated areas:

Coveralls over long-sleeved shirt and long pants. Waterproof gloves. Socks and chemical-resistant footwear.

Manufacturing and packaging personnel:

When there is significant potential for eye contact, wear chemical safety goggles. Waterproof gloves, especially when prolonged or repeated contact is anticipated. Ensure good ventilation. Avoid breathing dust. If ventilation is inadequate, use approved respiratory protection equipment when airborne exposure limits are exceeded.

Exposure Limits:

Ingredient:	ACGIH TLV	OSHA PEL
Particulates not otherwise regulated (total dust)	10 mg/m ³ TWA	15 mg/m ³ TWA
Kaolin CAS 1332-58-7	2 mg/m ³ TWA (respirable)	5 mg/m ³ TWA (respirable); 15 mg/m ³ TWA (total dust)
Crystalline silica, quartz CAS 14808-60-7	0.025 mg/m ³ TWA (respirable)	10 mg/m ³ (respirable); 30 mg/m ³ (total dust)
Titanium dioxide CAS 13463-67-7	10 mg/m ³ TWA	15 mg/m ³ total dust

Section 9. Physical and chemical properties

Appearance:	Tan
Odor:	Faint Odor
Physical state:	Solid
pH:	6.3 (as a 1 % w/w solution)
Vapor pressure:	5 x 10 ⁻⁵ Pa at 25°C (technical active ingredient)
Density:	15.6 lbs./cubic ft.

Section 10. Stability and reactivity

The following data were developed using formulated product:

Acute Studies:

Oral LD₅₀ (rat):	> 5000 mg/kg (males and females)
Dermal LD₅₀ (rat):	> 2000 mg/kg (males and females)
Inhalation LC₅₀ (rat):	> 2.2 mg/L (4 hrs.) (males and females)
Eye irritation (rabbit):	Mild irritant
Skin irritation (rabbit):	Slight irritant
Skin sensitization (guinea pig):	Not a sensitizer

Section 11. Toxicological information

The following data were developed using buprofezin technical:

- Subchronic and Chronic Effects:** In a 24-day dermal toxicity study, histopathologic alterations were observed in the liver of high-dose female rats (1000 mg/kg/day) and the skin of high-dose male rats (1000 mg/kg/day). In subchronic (90-day) studies with buprofezin, increased organ weight and microscopic changes in the liver and thyroid of both male and female rats, and in the kidney of male rats, were observed in animals exposed to approximately 69 mg/kg/day. Upon chronic (up to 2-year) exposure to buprofezin, effects included increased liver weight (dogs, rats, mice at doses \geq to approximately 17 mg/kg/day), increased thyroid weight (dogs, rats at doses \geq approximately 9 mg/kg/day), elevated incidences of hyperplasia or hypertrophy of hepatocytes (rats, mice at doses \geq 90 mg/kg/day), and hyperplasia of thyroid epithelial cells (rats only at \geq approximately 9 mg/kg/day).
- Cancer Effects:** No treatment-related increases in tumor incidence were reported in male or female rats or male mice; female mice from the high-dose group (493 mg/kg/day) had an elevated incidence of liver tumors. The EPA has classified buprofezin into the category "Suggestive Evidence of Carcinogenicity, but not sufficient to assess human carcinogenic potential". The relevance of this finding to humans is unknown. Buprofezin has not been classified as a carcinogen by NTP, IARC, or OSHA.
- Teratogenicity (Birth Defects):** Buprofezin is not a developmental toxicant.
- Reproductive Effects:** Buprofezin is not a reproductive toxicant.
- Neurotoxicity:** There was no evidence of neurotoxicity in rats upon subchronic (90-day) exposure to buprofezin.
- Immunotoxicity:** In a 28-day immunotoxicity study in rats, the high-dose (346 mg/kg/day) female group had statistically significant decreases in antigen-specific, T-cell dependent antibody formation. These changes were concomitant with a 38% decrease in body weight gain in this group. The relevance of the immunosuppressive effect of buprofezin is unknown given the systemic toxicity observed at the same dose level.
- Mutagenicity (Genetic Effects):** Buprofezin is not mutagenic or genotoxic.
- Toxicity of other components:** Kaolin – Eye contact may cause mechanical irritation. Skin contact may aggravate existing dermatitis. Inhalation from prolonged and continuous exposure to excessive quantities of dust may aggravate existing asthmatic or respiratory conditions. Ingestion of large quantities may cause gastric distress.
- Crystalline silica, quartz – Crystalline silica, quartz is a naturally-occurring impurity in an inert ingredient used to make Talus 70DF. It occurs at a low percentage in the formulated product (< 1%). Eye contact may cause mechanical irritation. Skin contact may aggravate existing dermatitis. Inhalation from prolonged and continuous exposure to excessive quantities of dust may cause silicosis or cancer. Crystalline silica, quartz is classified as a carcinogen by NTP and IARC. IARC has concluded that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). It is also noted that carcinogenicity was not detected in all industrial circumstance studies, and may be dependent on external

factors affecting its biological activity or distribution of its polymorphs. Exposure to respirable silica has also been associated with scleroderma and nephrotoxicity.

Titanium dioxide – Titanium dioxide is a component of an inert ingredient used to make Talus 70DF. It occurs at a low percentage in the formulated product (< 1%). Eye contact may cause mechanical irritation. Skin contact may aggravate existing dermatitis. Inhalation from prolonged and continuous exposure to excessive quantities of dust may result in mild fibrosis (scarring of the lungs) and may cause cancer. IARC has classified titanium dioxide as possibly carcinogenic to humans (Group 2B) based on sufficient evidence in experimental animals and inadequate evidence from epidemiological studies. It is mutagenic in mammalian somatic cells.

Section 12. Ecological information

Ecological data were developed using buprofezin technical.

Environmental Precautions: For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

Section 13. Disposal considerations

General Disposal: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State (provincial) and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemical additions, processing, storage or otherwise altering this material may make the waste disposal information presented in this SDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Refer to appropriate federal (RCRA: 40 CFR.261), state/provincial, or local requirements for proper classification information. For regulatory information on the ingredient components, see Section 15.

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: For nonrefillable flexible containers (i.e., bags): Do not reuse or refill this container. Offer for recycling, if available.



Section 14. Transport information

DOT:	Non-bulk (< 882 lbs. (400 kg)): Not regulated Bulk (> 882 lbs. (400 kg)): UN 3077, Environmentally hazardous substance, solid, n.o.s., (buprofezin), 9, PG III
IATA:	UN 3077, Environmentally hazardous substance, solid, n.o.s., (buprofezin), Class 9, PG III
IMDG:	UN 3077, Environmentally hazardous substance, solid, n.o.s., (buprofezin), Class 9, PG III, MARINE POLLUTANT; EMS: F-A, S-F

Talus® 70DF is not regulated for transport unless shipped by water, air, or in bulk containers.

Section 15. Regulatory information

U.S. Federal Regulatory Information:

EPA Registration Number:	71711-2-67690
TSCA Inventory:	Registered pesticide; exempt from TSCA

SARA Title III Notification and Information:

Section 302 (EHS) Ingredients:	None
Section 304 (EHS) or CERCLA Ingredients (RQ):	None

Section 313 Ingredients:	None
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U.S. State Regulatory Information:

U.S. State Right-to-Know (RTK) Ingredients:

Kaolin (CAS 1332-58-7)
Crystalline silica, quartz (CAS 14808-60-7)
Titanium dioxide (CAS 13463-67-7)
Silica, amorphous, precipitated and gel (CAS 112926-00-8)

California Proposition 65 List:	Silica, crystalline (airborne particles of respirable size) – chemical known to the state of California to cause cancer
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Section 16. Other information

HMIS® Hazard Rating:

Health:	1*
Flammability:	0
Physical Hazard:	0

*indicates both acute and chronic health hazard



NFPA Hazard Rating:

Health:	2
Flammability:	0
Reactivity:	0
Specific Hazard:	0

Prepared by: SePRO Corporation

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Notice to reader

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