

Conforms to HazCom 2012/United States

SAFETY DATA SHEET



Talus® 70DF

Talus® 70DF

Insect Growth Regulator

Section 1. Identification

GHS product identifier : Talus® 70DF Insect Growth Regulator

Product Description : Dry Flowable EPA Registration No. : 71711-21-67690

Supplier's details : SePRO Corporation

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Suite 600

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Monday - Friday, 8am to 5pm <u>E.S.T.</u>

www.sepro.com

Emergency telephone number (with hours of operation) : INFOTRAC - 24-hour service 1-800-535-5053

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

Classified according to OSHA 29 CFR 1910.1200 HCS

Classification: Carcinogenicity 1A

Combustible Dust

Signal word: DANGER



Hazard statements: May cause cancer.

May form combustible dust concentrations in the air.



Precautionary statements

<u>Prevention</u>: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wear protective gloves/protective clothing/eye protection/face

protection.

Response: If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Section 3. Composition/information on ingredients

Chemical Name	CAS Number	Percentage
Buprofezin		
CAS Name: 2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-	953030-84-7	70.00%
methylethyl)-5-phenyl-4H-1,3,5-thiadiazin-4-one		
Titanium dioxide	13463-67-7	0.1% to 1%
Citric acid	77-92-9	0.1% to 1%
Quartz	14808-60-7	0% to 1%
Kaolin	1332-58-7	10% to 20%
*Other ingredients:		7.00% to 19.80%

^{*}Specific chemical identity and percentage of composition withheld as a trade secret

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 induct vomiting unless told to do so by the poison

control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 Toxicological Information.

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.

Talus® 70DF SDS

Section 5. Fire-fighting measures

Suitable extinguishing

Unsuitable extinguishing

media

from the chemical (e.g. combustion products) Special protective

Specific hazards arising nature of any hazardous

equipment and precautions for fire-fighters

Alcohol-resistant foam, carbon dioxide, dry chemicals, and water spray.

No information available

Carbon dioxide, carbon monoxide, nitrogen oxides, and sulfur dioxide.

Firemen should wear positive pressure self-contained breathing apparatus (SCBA).

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 selfcontained 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:	<u>ACGIH</u>	<u>OSHA</u>
Kaolin CAS 1332-58-7	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
Quartz CAS 14808-60-7	0.025 mg/m³ TWA (respirable fraction)	Not established
Titanium dioxide CAS 13463-67-7	10 mg/m ³ TWA	15 mg/m³ TWA (total dust)

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene OSHA = Occupational Safety and Health Administration TWA = Time Weighted Averages are based on 8h/day, 40h/week exposures



Talus® 70DF

Section 9. Physical and chemical properties

Appearance: Tan
Odor: Faint Odor
Physical state: Solid

pH: 6.3 (as a 1 % w/w solution)

Melting point/freezing point

104.8°C (220.64°F) (technical active ingredient)

104.8°C (220.64°F) (technical active ingredient)

252.3°C (486.14°F) (technical active ingredient)

boiling range

Flash point

Evaporation rate
Flammability (solid, gas)

Upper/lower flammability or

No data available
No data available
No data available
No data available

explosive limits

Vapor pressure 5 x 10⁻⁵ Pa at 25°C (technical active ingredient)

Vapor densityRelative density
No data available
15.6 lbs./cubic ft.

Solubility 637 µg/L at 20°C (technical active ingredient)

No data available

Partition coefficient (n-

octanol/water)

Auto-ignition temperature
Decomposition temperature
Viscosity

No data available
No data available
Not applicable

Section 10. Stability and reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable for at least two years at ambient temperature.

Possibility of hazardous Hazardous polymerization will not occur.

reactions

Conditions to avoid None known.

Incompatible materials No data available.

Hazardous decomposition In the event of fire, carbon dioxide, carbon monoxide, and nitrogen oxides, and sulfur

products dioxide.

Section 11. Toxicological information

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	Not a sensitizer
(quinea pig):	



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 ≥ to approximately 17 mg/kg/day), increased thyroid weight (dogs, rats at doses ≥

approximately 9 mg/kg/day), elevated incidences of hyperplasia or hypertrophy of

hepatocytes (rats, mice at doses ≥ 90 mg/kg/day), and hyperplasia of thyroid epithelial cells

(rats only at ≥ 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 significantly 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.

Carcinogenic Effects
CAS Number OSHA IARC NTP

Quartz 14808-60-7 - Group 1-Carcinogenic to humans Known Human Carcinogen

Titanium dioxide 13463-67-7 - Group 2B-Possible carcinogenic to humans Not listed

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: Not regulated

IATA: UN 3077, Environmentally hazardous substance, solid, n.o.s., (buprofezin), Class 9, PG III,

MARINE POLLUTANT

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 or air.

Section 15. Regulatory information

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. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if swallowed

U.S. Federal Regulatory Information:

EPA Registration Number: 71711-21-67690

TSCA Inventory: Registered pesticide; exempt from TSCA.

Components on the

TSCA inventory: Citric acid (77-92-9), Kaolin (1332-58-7), Quartz (14808-60-7),

and Titanium dioxide (13463-67-7).



SARA Title III Notification and Information:

Section 302 (EHS) Ingredients: None

Section 304 (EHS)

or CERCLA Ingredients (RQ): None Section 313 Ingredients: None

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:

- Titanium dioxide (13463-67-7) This product contains a chemical known to the State of California to cause cancer (airborne, unbound particles of respirable size).
- Quartz (14808-60-7) This product contains a chemical known to the State of California to cause cancer (airborne particles of respirable size).

Section 16. Other information

HMIS® Hazard Rating:

Health: 1*
Flammability: 0
Physical Hazard: 0

NFPA Hazard Rating:

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

Prepared by: SePRO Corporation

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Reason for Editing:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

^{*}indicates both acute and chronic health hazard