

ScPR®

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	
Product Description	: Dry Flowable	
EPA Registration No.	:71711-21-67690	
Supplier's details	 SePRO Corporation 11550 North Meridian Street Suite 600 Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290 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:



Hazard statements:

May cause cancer. May form combustible dust concentrations in the air.

Precautionary statements Prevention:	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.
<u>Disposal</u> :	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: 4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-	953030-84-7	70.00%
dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-, (2Z)-		
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.

Section 5. Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry chemicals, and water spray.
Unsuitable extinguishing media	No information available
Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products)	Carbon dioxide, carbon monoxide, nitrogen oxides, and sulfur dioxide.
Special protective equipment and precautions for fire-fighters	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 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	OSHA
Kaolin CAS 1332-58-7	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Quartz CAS 14808-60-7	0.025 mg/m ³ TWA (respirable fraction)	Not established
Titanium dioxide CAS 13463-67-7	10 mg/m ³ TWA	15 mg/m ³ 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

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)
Initial boiling point and	252.3°C (486.14°F) (technical active ingredient)
boiling range	
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or	No data available
explosive limits	
Vapor pressure	5 x 10 ⁻⁵ Pa at 25°C (technical active ingredient)
Vapor density	No data available
Relative density	15.6 lbs./cubic ft.
Solubility	637 μg/L at 20°C (technical active ingredient)
Partition coefficient (n-	No data available
octanol/water)	
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

Section 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Stable for at least two years at ambient temperature. Hazardous polymerization will not occur.
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	
(guinea pig):		



The following data were developed using buprofezin technical:

•	were developed us	ing puprolezin t	echnical.	
Subchronic and Ch Effects:	In a 24- high-dos mg/kg/d microsc male rat (up to 2 at doses approxin hepatoc	se female rats (10 ay). In subchroni opic changes in the s, were observed -year) exposure to $s \ge to approximatemately 9 mg/kg/dateytes (rats, mice a$	l in animals exposed to approxima	n-dose male rats (1000 , increased organ weight and nd female rats, and in the kidney of tely 69 mg/kg/day. Upon chronic eased liver weight (dogs, rats, mice id weight (dogs, rats at doses ≥ asia or hypertrophy of
Cancer Effects:	No treat mice; fe tumors. Carcino this find	ment-related incre male mice from th The EPA has genicity, but not s	eases in tumor incidence were repo ne high-dose group (493 mg/kg/day classified buprofezin into the c sufficient to assess human carcino	orted in male or female rats or male) had an elevated incidence of liver ategory "Suggestive Evidence of genic potential". The relevance of classified as a carcinogen by NTP,
Teratogenicity (Bir	th Defects):Buprofe	zin is not a develo	opmental toxicant.	
Reproductive Effect	ets: Buprofe	zin is not a reproc	ductive toxicant.	
Neurotoxicity:	There w buprofe		f neurotoxicity in rats upon subchr	onic (90-day) exposure to
Immunotoxicity:	statistica These c The rele	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):	-	zin is not mutage		
			inogenic 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	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.

carcinogenic to humans

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 (R	CRA: 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, foo	d, 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 regulatedIATA:UN 3077, Environmentally hazardous substance, solid, n.o.s., (buprofezin), Class 9, PG III,
MARINE POLLUTANTIMDG: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 Infor	mation:
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

*indicates both acute and chronic health hazard

NFPA Hazard Rating:

Health:	2
Flammability:	0
Reactivity:	0
Specific Hazard:	0
Prepared by:	SePRO Corporation
Date:	24 March 2016
Reason for Editing:	Updated section 3, 14, 15.

Notice to reader

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