



MATERIAL SAFETY DATA SHEET

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Avast! SRP

Date Prepared: November 13, 2000

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Product Name: Avast! SRP

HAZARD CLASSIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH-2 FIRE-1 REACTIVITY-0

HMIS: HEALTH-1 FIRE-1 REACTIVITY-0

MANUFACTURER NAME AND ADDRESS

Griffin L.L.C.	Griffin (Europe) S.A.	Griffin FE (Malaysia) S/B
2509 Rocky Ford Road	c/o Minervastraat 8	P.O. Box 6506
P.O. Box 1847	B-1930 Zaventem	47300 KG Tunku
Valdosta, GA 31603-1847	Belgium	Petaling Jaya
		Malaysia

EMERGENCY TELEPHONE NUMBERS

Griffin L.L.C. (USA): (+1) (800) 237 1854

Griffin (Europe) S.A.: (+32)-2-720 6644

Griffin FE (Malaysia) S/B: (+60)-3-757 4773

Prosar: (+1) (888) 324 7598

Chemtrec: (+1) (800) 424 9300

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Component Name	% by Wt.	CAS#
1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone (Fluridone)	5.0	59756-60-4
Inert Ingredients	95.0	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Caution. Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

POTENTIAL HEALTH EFFECTS

Eye Irritation: May cause slight temporary eye irritation. Corneal injury is unlikely.



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3. HAZARDS IDENTIFICATION (con't)

Skin Irritation:	Prolonged exposure may cause slight skin irritation. Did not cause allergic skin reactions when tested in guinea pigs.
Skin Absorption:	A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
Ingestion:	Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing amounts larger than that may cause injury.
Inhalation:	At room temperature, vapors are minimal due to the physical properties. A single exposure is not likely to be hazardous.
Systemic (Other Target Organ) Effects:	In chronic toxicity studies in animals, Fluridone has been shown to cause liver and kidney effects.
Cancer Information:	The components did not cause cancer in long-term animal studies.
Teratology (Birth Defects):	In animal studies this product did not cause birth defects. Other fetal effects occurred only at doses toxic to the mother.
Mutagenicity (Effects on Genetic Material):	Results of mutagenicity tests in animals have been negative. Results of a battery of in-vitro mutagenicity tests, except for one, have also been negative. Based on these results and the lack of carcinogenic response in long-term studies, Fluridone is not considered to be mutagenic.

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get medical attention.
Eye Contact:	Hold eyelids open and flush with water for 15-20 minutes until no evidence of chemical remains. Call a physician if irritation persists.
Skin Contact:	Remove contaminated clothing and shoes. Wash with plenty of soap and water for 15-20 minutes until no evidence of chemical remains. Get medical attention if irritation persists.



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4. FIRST AID MEASURES (con't)

Ingestion: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Note to Physician: There is no specific antidote. Use supportive care. Treatment is based on the judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

Flash Point & Method: Not determined
Flammable Limits: Not applicable
Autoignition Temperature: No ignition up to 1382 °F (750 °C)

FIRE FIGHTING HAZARDS & PROCEDURES

General Hazard: This material exhibits the flammability characteristics of an organic powder. Keep unnecessary people away. Isolate hazard areas and deny unnecessary entry. Highly toxic fumes are released in fire situations.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray or foam.

Fire Fighting Equipment/Instructions: Keep personnel removed and upwind of fire. Wear positive-pressure, self-contained breathing apparatus. Wear full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Use absorbent material to contain and clean up small spills and dispose as waste. Large spills should be reported to CHEMTREC for assistance. Prevent runoff.

7. HANDLING AND STORAGE

General Information: Keep out of the reach of children. Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, contain material and dispose of as wastes.



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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS

These workers must refer to the Product Label and Directions For Use attached to the product.

MANUFACTURING, COMMERCIAL BLENDING, & PACKAGING WORKERS

Ventilation:	Provide general or local exhaust ventilation to control airborne levels below the exposure guidelines.
Respiratory Protection:	Atmospheric levels should be maintained below the exposure guideline. If respiratory irritation is experienced, use an approved air-purifying respirator.
Eye Protection:	Wear protective eyewear to prevent contact with this substance.
Protective Clothing:	For brief contact, no precautions other than clean body covering clothing should be needed. Use chemically-resistant gloves when prolonged or frequently repeated contact could occur. Wash thoroughly with soap and water after handling. Wash exposed clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Not determined
pH (1% dispersion):	7.7
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Solubility in Water:	Insoluble, but disintegrates in water
Bulk Density:	0.86 g/mL @ 22.6 °C
Odor:	Faint musty odor
Color:	Gray
Physical State:	Solid, pellets

10. STABILITY AND REACTIVITY

General:	This material is stable under normal conditions.
Incompatible Materials:	None known
Hazardous Decomposition:	Toxic vapors will be emitted as it burns.
Hazardous Polymerization:	Material is not known to polymerize.

11. TOXICOLOGICAL INFORMATION

ACUTE (Avast! Technical)

Inhalation:	LC ₅₀ (rat 4-hour) > 4.12 mg/L
Eye Irritation:	May cause slight substantial, but temporary eye injury.



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11. TOXICOLOGICAL INFORMATION (con't)

Skin Irritation:	Prolonged exposure may cause slight skin irritation.
Skin Absorption:	Acute dermal LD ₅₀ > 5000 mg/kg (rabbits)
Ingestion:	Oral LD ₅₀ > 10,000 mg/kg (rats)

12. ECOLOGICAL INFORMATION

Follow use directions carefully so as to minimize adverse effects on non-target organisms. In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the US Fish and Wildlife Service before making applications.

Do not contaminate water when disposing of equipment wash-waters. Trees and shrubs growing in water treated with Avast! SRP may occasionally develop chlorosis. Do not apply in tidewater/brackish water.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal:	Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.
Container Disposal:	Triple rinse (or equivalent). Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Department of Transportation (DOT):	Not Regulated
International Air Transport Association (IATA)	Not Regulated
International Maritime Organization (IMO):	Not Regulated

15. REGULATORY INFORMATION

OSHA:	This product is considered hazardous under the OSHA Hazardous Communication Standard (29 CFR §1910.1200).
TSCA:	All product components are on the TSCA Chemical Inventory.



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15. REGULATORY INFORMATION (con't)

CERCLA: Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

RCRA: This product is not classified as hazardous by 40 CFR §261.33.

SARA TITLE III

311/312 Hazard Categories: This product has been reviewed according to the EPA "Hazard Categories" relating to SARA Title III, and is categorized as an immediate health hazard (40 CFR §370.41)

313 Reportable Ingredients: This product does not contain a chemical listed in Section 313 of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR §372.

16. OTHER INFORMATION

REVISION SUMMARY

This document has been prepared using the standard Griffin ANSI Z400.1 compliant format.

The information in this Material Safety Data Sheet relates to this specific material. It may not be valid for this material if used in combination with any other materials or in any process. It is the users' responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.