



DIVISION OF ROLF C. HAGEN INC.
6535 Millcreek Drive, Unit 42
Mississauga, Ontario
L5N 2M2
Tel: (905)826-6699

MATERIAL SAFETY DATA SHEET

Product: Sergeant's Regular Flea & Tick Collar for Dogs

Code: 70154

U.P.C. #: 0 73091 01221 4

Size: 30g

P.C.P. Act Registration No: 14928

Chemical Family: Naled and Sendran

Chemical Name: 1,2-Dibromo 2,2 dichloroethyl dimethyl phosphate 15% and
0-Isopropoxyphenyl methylcarbamate 2.4%

SECTION 2 – HAZARDOUS INGREDIENTS

INGREDIENT	CONTENT	CAS-NUMBER	EXPOSURE LIMITS
1,2 - Dibromo 2,2 dichloroethyl dimethyl phosphate (Naled)	15%	300-76-5	OSHA: 3mg/m ³ ACGIH: 3mg/m ³
0 - Isopropoxyphenyl methylcarbamate (Sendran)	2.4%	114-26-1	ACGIH: 0.5mg/m ³

SECTION 3 – PHYSICAL PROPERTIES

Physical Form: Solid

Appearance: Double layer extruded poly vinyl strip

Color: Brown & White

Odor: Not Noted

PH: Not Noted

Boiling Point: Not Applicable

Melting/Freezing Point: Not Applicable

Solubility in Water: Not Applicable

Specific Gravity: Not Noted

Bulk Density: 1.17g/inch

% Volatile By Volume: Not Applicable

Evaporation Rate: Not Applicable

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

SECTION 4 - FIRE AND EXPLOSION

Flash Point: Not Applicable

Flammable Limits:

Upper Explosive Limit (UEL) (%): Not Applicable

Lower Explosive Limit (LEL) (%): Not Applicable

Auto-Ignition Temperature: Unknown

Extinguishing Media: Water; Carbon Dioxide; Foam

Special Fire Fighting Procedures: Do not breathe fumes, wear complete firefighting gear, including protective gloves, eye protection and self contained breathing apparatus, wash clothing before using.

Unusual Fire/Explosion Hazards: Emits toxic fumes when burned – CO, HCl and CO₂ contact with unburned pesticide can be hazardous to health.

SECTION 5 - HUMAN HEALTH DATA

Route of Entry: Inhalation LC₅₀>2mg/litre (Rats) / Ingestion LD₅₀>500mg/kg (Rats) / Skin LD₅₀>2000mg/kg (Rabbits)

Humans Effects and Symptoms of Overexposure:

Acute Effects of Exposure: Naled is moderately toxic, causes inhibition of cholinesterase. May cause blurred vision, profuse sweating, cramps, nausea, vomiting, twitching tremors or convulsions. In severe cases cardiac arrest or respiratory failure may occur. If exposed should have blood cholinesterase monitored regularly. Long term exposure may cause acute intoxication.

Sendran is moderately toxic, causes inhibition of cholinesterase. May cause blurred vision, profuse sweating, cramps, nausea, vomiting, twitching tremors or convulsions. If exposed should have blood cholinesterase monitored regularly. Long term exposure may cause weakness and anorexia resembling influenza.

Chronic Effects of Exposure: Not Noted

Carcinogenicity: None of the components in this product are known to be carcinogenic.

Medical Conditions: See above in Acute Effects of Exposure section

Aggravated by Exposure: Not Noted

SECTIONS 6 - EMERGENCY AND FIRST AID PROCEDURES:

First Aid for Eyes: Immediately flush with flowing water for 15 minutes. If irritation persists, get medical attention.

First Aid for Skin: Wash immediately with soap and water. If irritation occurs, get medical attention.

First Aid for Inhalation: Initiate artificial respiration by using a positive pressure method.

First Aid for Ingestion: Not Noted

Note to Physician: Atropine (IV) should be used in moderate cases after cyanosis have been overcome. Give symptomatic and supportive care.

Sergeant's Regular Flea & Tick Collar for Dogs

Code: 70154

SECTION 7 - EMPLOYEE PROTECTION RECOMMENDATIONS:

Eye Protection Requirements: Goggles when necessary

Skin Protection Requirements: Gloves when necessary

Respirator Requirements: None Required

Additional Protective Measures: Wash hands thoroughly after handling product; avoid dust from collar in eyes or prolonged contact with skin.

SECTION 8 - REACTIVITY DATA:

Stability: This is a stable material

Hazardous Polymerization: Will not occur

Incompatibilities: None Known

Instability Conditions: Not Noted

Decomposition Products: None Known

SECTION 9 - SPILL AND LEAK PROCEDURES:

Spill Or Leak Procedures: Because of individual packing, possibilities of a release or spill are remote. However, should one occur, place in container for proper disposal. Do not allow large quantities to enter waterways.

Waste Disposal Method: Do not reuse container or used collar. Wrap and put in trash. For large quantities, product should be disposed of in accordance with provincial requirements. For additional information on the disposal of unused, unwanted product and the clean up of spills, contact the Regional Office of Conservation and protection, Environment Canada.

SECTION 10 - SPECIAL PRECAUTIONS & STORAGE DATA:

Storage Temperature: Store in a cool dry place

Shelf Life: Not Noted

Special Sensitivity: Not Noted

Handling/Storage Precautions: Do not allow children to handle collar. Store in original unopened container. Do not open protective pouch until ready to use.

The information contained herein is considered accurate and offered only as a guide to the handling of this specific material. This information, does not relate to its use with any other material or product or in any process. [No warranty, expressed or implied is made regarding the accuracy of the data or the performance of the material by Avant Sales Division of Rolf C. Hagen Inc.]. This Material Safety Data Sheet is valid for three Years from Issue date.

Issue Date: January 1st, 2005