



Synotic

Material Safety Data Sheet

WW MSDS No. 30-0141

Section 1. Product and Company Identification

Manufactured/ Supplied by	Fort Dodge Animal Health 800 5th Street NW P.O. Box 518 Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149	Date of Preparation	18 January 2002
		Product No.	30-0141
Product Trade Name	Synotic	Formula No.	Not available.
Common Name	Not applicable.	CAS No.	Mixture.
Synonyms	Fluocinolone acetonide.	U.N. No.	Not applicable.
Chemical Formula	Mixture.	EINECS No.	Not applicable.
Chemical Family	Veterinary pharmaceutical. Anti-inflammatory Agents.	In Case of Emergency	515-955-6033
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical Anti-inflammatory Agents.		
Packaging	Glass bottle/vial		
Formula Type	(LD) Liquid.		

Section 2. Composition - Information on Ingredients

Name of Ingredients	CAS No.	Conc.	EU Symbol	R Phrase
1) Fluocinolone Acetonide	67-73-2	0.01	T	R48, R63
2) Dimethylsulfoxide	67-68-5	60	Not controlled.	Not controlled.
3) Propylene Glycol	57-55-6	40	Not controlled.	Not controlled.

Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards

Acute Health Effects	May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness, and possible death.
Chronic Health Effects	MUTAGENIC EFFECTS: Mutagenic for mammals [Propylene Glycol]. Potential organ systems affected are: Blood System, Kidneys, Liver, Skin/Epithelium. Adverse effects could include: altered blood counts kidney abnormalities liver abnormalities
Environmental Hazards	No known significant effects or critical hazards.

Section 4. First Aid Measures - (by medical responders using "Universal Precautions")

Eye Contact	Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. (Check person for contact lenses and remove if present.) If redness or irritation persists have eyes examined by doctor immediately.
Skin Contact	Flush skin with plenty of soap and water for at least 15 minutes (remove all contaminated clothing and shoes). Get medical attention if symptoms persist.
Inhalation	No specific treatment, treat symptomatically. If breathing is difficult give oxygen, if respiratory arrest occurs provide artificial respiration and seek immediate medical assistance.
Ingestion	No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities are ingested. Give several glasses of ice water or very cold water to dilute the base.
Notes to Medical Doctor	Direct treatment at control of symptoms.

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Section 5. Fire-Fighting Measures

Extinguishing Media and Instructions	Follow your company's procedures. Use an extinguishing agent suitable for the surrounding class of fire.
Special Exposure Hazards	In certain Fire conditions, traces of other toxic gases may be emitted.
Special Fire Fighting Protective Equipment	Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.

Section 6. Accidental Release Measures

Small Spill Guidelines	Follow your company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see Section 8). Use a tool to scoop up solid or absorbed material and put into appropriate labeled waste container.
Large Spill Guidelines	Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions	No special measures are typically indicated.

Section 7. Handling and Storage

Handling (ventilation and fire prevention)	Avoid contact with eyes, skin, and clothing. Product is capable of passing through skin very quickly, so care must be taken to avoid skin contact. Avoid generating or breathing product aerosol. Wash after handling.
Storage (conditions and limitations)	Store tightly closed in original container. Keep containers in a well ventilated, secure location.

Section 8. Exposure Controls and Personal Protection - (normal and intended use)

Exposure Guidelines				
Component	REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Fluocinolone Acetonide	TWA:			0.004 mg/m³ 20 mg/m³ SKIN
2) Dimethylsulfoxide	TWA:			
3) Propylene Glycol	TWA:	156 mg/m³		
Engineering Design and Control Measures	General ventilation is typically sufficient to keep airborne levels below established values. Provide eye wash and quick drench shower close to work station. Clean, appropriately launder, or dispose of all potentially contaminated work clothing, foot wear, and protective equipment after use.			
Protective Clothing				
Eyes	Safety glasses, goggles or face shield where product aerosol or splash potential exists.			
Skin	Lab coat.			
Hands	Gloves, Chemical resistant. Nitrile gloves.			
Respiratory	Respirator selection must be based on anticipated exposure levels, product hazards, and the safe working limits of the selected respirator. A respirator is not needed under normal and intended conditions of product use.			

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Liquid.)	Odor	Slight.
		Color	Clear
		pH	Not available.
Molecular Weight	Mixture.		
Boiling Point	Not available.		
Melting/Freezing Point	18.5°C (65.3°F) based on data for: Dimethylsulfoxide. Weighted average: -12.9°C (8.8°F)		
Density/Bulk Density	Weighted average: 1.07 (Water = 1)		
Vapor Pressure	0.42 mm of Hg (@ 20°C) (Dimethylsulfoxide). Weighted average: 0.28 mm of Hg (@ 20°C)		
Vapor Density	2.69 (Air = 1) (Dimethylsulfoxide). Weighted average: 2.66 (Air = 1)		
Viscosity	Not available.		
Partition Coefficient	The product is equally soluble in oil and water.		
Solubility	Synotic: Soluble in cold water, hot water.		
Flash Point	CLOSED CUP: 94°C (201.2°F). (Dimethylsulfoxide)		
Autoignition Point	215°C (419°F) (Dimethylsulfoxide).		
Explosion Limits	LOWER: 2.6% UPPER: 42% (Dimethylsulfoxide)		
Dust Explosivity	Not applicable.		

Section 10. Stability and Reactivity

Conditions to Avoid and Incompatibility	Highly reactive with oxidizing agents. Reactive with acids, alkalis.
Decomposition Products	These products are carbon oxides (CO, CO2).

Section 11. Toxicological Information**Acute Effects**

Component	Test	Result	Route	Species
No hazardous ingredients				
Eye Contact		Moderately irritating (USA). Irritating (EU).		
Skin Contact		Severely irritating (USA). Irritating (EU).		
Inhalation		Slightly irritating to the respiratory system.		
Ingestion		Practically non-toxic if swallowed.		

Chronic Effects

Target Organs	Potential organ systems affected are: Blood System, Kidneys, Liver, Skin/Epithelium.
Adverse Effects Statements	Adverse effects could include: altered blood counts kidney abnormalities liver abnormalities
Sensitization	Not available.

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Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic Effects Mutagenic for mammals [Propylene Glycol].

Teratogenic Effects No known human teratogenic effect

Reproductive Effects No evidence of human reproductive effects.

Other Effects Not available.

Section 12. Ecological Information

Environmental Fate Not available.

Environmental Hazards No known significant effects or critical hazards.

Ecotoxicity

Component	Species	Period	Result
No hazardous ingredients			

Other Not available.

Section 13. Disposal Considerations

Waste Handling and Disposal Avoid disposal, make attempts to use product completely in accordance with intended use. Incinerate unwanted products and waste materials.

Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.

Section 14. Transport Information

Proper Shipping Name, Primary Class, UNNA Number, Packaging Group Not controlled.

ADR/RID Classification (Road and Rail Transport) Not controlled.

ADNR Classification (Inland Waterways) Not controlled.

IMO/IMDG Class (Maritime Transport) Not controlled.

ICAO/IATA (Air Transport) Not controlled.

CEFIC Tremcard Not available.

HI Kemler Not available.

U.S.A. DOT Class Not controlled.

RQ Not applicable.

NFPA

Health



Flammability

Reactivity

Specific hazard

Packaging Instructions Not available.

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Section 15. Regulatory Information and Warning Labels**(R) Risk Phrases**

R48- Danger of serious damage to health by prolonged exposure.
R63- Possible risk of harm to the unborn child.



(Xn)-Harmful

(S) Safety Phrases

Not available

NOTE: This product has been classified in accordance with applicable country-specific regulations.

Section 16. Other Key Information**Other Considerations**

See product label and package insert for additional information.

19 January 2002

Responsible for MSDS: Global Engineering, Environmental and Safety

Fort Dodge Animal Health -- within American Home Products Corporation

Notice to Reader

** This symbol indicates information which has changed from the previous MSDS.*

The information provided in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package precautions and this information. All materials may present unknown hazards and should be used with caution.

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