

## Material Safety Data Sheet

## Dopram-V Injectable

WW MSDS No. 30-5021

Section 1. Produc	et and Company Identification		
Manufactured/ Supplied by	Fort Dodge Animal Health 800 5th Street NW P.O. Box 518	Date of Preparation Product No.	16 January 2002 30-5021
	Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149	Trouber 140.	30-3021
Product Trade Name	Dopram-V Injectable	Formula No.	Not available.
Common Name	Not applicable.		Mixture. Not applicable.
Synonyms			
Chemical Formula	Mixture.		Not applicable.
Chemical Family	Not available.		
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical. Used to stiumulate respiration in dogs, cats and horses during and after general anesthesia, or to stimulate or intiate respiration.	<u>In Case of</u> <u>Emergency</u>	515-955-6033
Packaging	Vial.		
Formula Type	Injectable solution.		

Section 2. Composition - Information on Ingredients				
Name of Ingredients	CAS No.	Conc.	EU Symbol	R Phrase
<ol> <li>Doxapram Hydrochloride</li> <li>Benzyl Alcohol</li> <li>Chlorobutanol</li> <li>Water For Injection.</li> </ol>	7081-53-0 100-51-6 6001-64-5 7732-18-5	2 0.9 0.5 96.6	T Xn Xn Not controlled.	R25 R20/22 R22, R36/37/38 Not controlled.

Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards				
Acute Health Effects	May cause skin sensitization by skin contact.			
Chronic Health Effects	MUTAGENIC EFFECTS: Mutagenic for mammalians [Benzyl Alcohol]. [Benzyl Alcohol]. Mutagenic for mammalians Potential organ systems effected are: Brain, Central Nervous System (CNS). Adverse effects could include: central nervous system stimulation convulsive seizures anaphylactic shockVery hazardous in case of skin contact (sensitizer).			
Environmental Hazards	No known significant effects or critical hazards.			

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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 symptomaticaly. 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.	
Notes to Medical Doctor	Direct treatment at control of symptoms.	

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	When heated it emits toxics fumes. Avoid exposure to freezing temperatures.	
Special Fire Fighting Protective Equipment	No special product precautions or equipment.	

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. Avoid generating or breathing product aerosol. Wash after handling.	
Storage (conditions and limitations)	Keep container tightly closed. Keep in a well-ventilated place. Store between 15 to 30°C (59 to 86°F)	

Section 8. Exposu	re Controls and Perso	nal Protectio	on - (normal an	d intended use)	
Exposure Guidelines					
Component		REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Benzyl Alcoho	TWA:	44 mg/m <sup>3</sup>			
Engineering Design and Control Measures		to work station.	Clean, appropria		alues. Provide eye wash and of all potentially contaminated
Protective Clothing					
Eyes	Safety glasses, goggles or	face shield whe	re product aerosol	or splash potential exists	
Skin	Lab coat.				
Hands	Gloves, Chemical resistant				

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.

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Section 9. Physica	Section 9. Physical and Chemical Properties				
Physical State and Appearance	Liquid.	Odor	Slight.		
Molecular Weight	Mixture.	Color	Clear Colorless.		
Boiling Point	Not available.		3.5 to 5 [Acidic.]		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water For Inj	ection			
Density/Bulk Density	1 (Water = 1) (Water For Injection.).				
Vapor Pressure	18 mm of Hg (@ 20°C) (Water For Injection.).				
Vapor Density	Not available.				
Viscosity	Not available.				
Partition Coefficient	Not available.				
Solubility	Dopram-V Injectable : Soluble in cold water, hot water.				
Flash Point	Not available.				
Autoignition Point	Not available.				
Explosion Limits	Not available.				
Dust Explosivity	Not applicable.				

Section 10. Stability and Reactivity		
Conditions to Avoid and Incompatibility	Highly reactive with oxidizing agents. Reactive with acids, alkalis. Slightly reactive to reactive with metals.	
<b>Decomposition Products</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds.	

cute Effects				
Component	Test	Result	Route	Species
1) Doxapram Hydrochlorid	de LD50	261 mg/kg	oral	Rat
	LD50	270 mg/kg	oral	Mouse
	LD50	150 mg/kg	oral	Dog
2) Benzyl Alcohol	LD50	1230 mg/kg	oral	Rat
	LD50	1040 mg/kg	oral	Rabbit
	LD50	2000 mg/kg	dermal	Rabbit
	LC50	1000 (8 hour(s))	inhalation	Rat
3) Chlorobutanol	LD50	283 mg/kg	oral	Rat
Eye Contact Mod	erately irritating (USA)	. Irritating (EU).		
Skin Contact Seve	erely irritating (USA).	Irritating (EU).		
Inhalation Harr	nful by inhalation. Mo	derately irritating to the respira	tory system.	
Ingestion Harr	nful if swallowed.			

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Chronic Effects	
Target Organs	Potential organ systems affected are: Brain, Central Nervous System (CNS).
Adverse Effects Statements	Adverse effects could include: central nervous system stimulation convulsive seizures anaphylactic shock
Sensitization	Not available.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic Effects	Mutagenic for mammalians [Benzyl Alcohol].
Teratogenic Effects	No known human teratogenic effect
<b>Reproductive Effects</b>	No evidence of human reproductive effects.
<b>Other Effects</b>	Not available.

Section 12. Ecological Information								
Environmental Fate	Not available.							
Environmental Hazards	No known sigi	nificant effects or critica	al hazards.					
Ecotoxicity								
Component		Species	Peri	od	Result			
1) Benzyl Alcohol		EC50 (daphnia)	48	hour(s)	360	mg/l		
		Fish	96	hour(s)	460	mg/l		
		Bluegill	96	hour(s)	10	mg/l		
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, Pakaging 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.			

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CEFIC Tremcard	Not available.	HI Kemler Not available.	
U.S.A. DOT Class	Not controlled. Not applicable.	Health Health Specific hazard	
Packaging Intructions	Not available.		

[Xn] Harmful if inhaled.

## Section 16. Other Key Information

Other Considerations See product label and package insert for additional information.

19 January 2002

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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