



Material Safety Data Sheet

Dopram-V Injectable

WW MSDS No. 30-5021

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	16 January 2002
Product Trade Name	Dopram-V Injectable	Product No.	30-5021
Common Name	Not applicable.	Formula No.	Not available.
Synonyms	Doxapram Hydrochloride	CAS No.	Mixture.
Chemical Formula	Mixture.	U.N. No.	Not applicable.
Chemical Family	Not available.	EINECS No.	Not applicable.
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical. Used to stimulate respiration in dogs, cats and horses during and after general anesthesia, or to stimulate or initiate respiration.	In Case of Emergency	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
1) Doxapram Hydrochloride	7081-53-0	2	T	R25
2) Benzyl Alcohol	100-51-6	0.9	Xn	R20/22
3) Chlorobutanol	6001-64-5	0.5	Xn	R22, R36/37/38
4) Water For Injection.	7732-18-5	96.6	Not controlled.	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 mammals [Benzyl Alcohol]. [Benzyl Alcohol]. Mutagenic for mammals 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 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.
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 toxic 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. Exposure Controls and Personal Protection - (normal and intended use)

Exposure Guidelines				
Component	REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Benzyl Alcohol	TWA: 44 mg/m ³			
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.			

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.	Odor	Slight.
Molecular Weight	Mixture.	Color	Clear Colorless.
Boiling Point	Not available.	pH	3.5 to 5 [Acidic.]
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water For Injection..		
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.
Decomposition Products	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), halogenated compounds.

Section 11. Toxicological Information

Acute Effects				
Component	Test	Result	Route	Species
1) Doxapram Hydrochloride	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	Moderately irritating (USA). Irritating (EU).			
Skin Contact	Severely irritating (USA). Irritating (EU).			
Inhalation	Harmful by inhalation. Moderately irritating to the respiratory system.			
Ingestion	Harmful 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 mammals [Benzyl Alcohol].
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
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, 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.

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CEPIC Tremcard	Not available.	HI Kemler	Not available.
U.S.A. DOT Class	Not controlled.	NFPA Health 	Flammability
RQ	Not applicable.		Reactivity
Packaging Instructions	Not available.		Specific hazard

Section 15. Regulatory Information and Warning Labels

(R) Risk Phrases	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.		[Xn] Harmful if inhaled.
(S) Safety Phrases	Not applicable.		
<i>NOTE: This product has been classified in accordance with applicable country-specific regulations.</i>			

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	
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