

MATERIAL SAFETY DATA SHEET



MANUFACTURER Miles Inc. Consumer Healthcare Products 1127 Myrtle Street Elkhart, IN 46514 (219)264-8400	For accidental ingestion, or adverse reaction, call: 203/937-2373 or 1-800/468-0894 ask for: Professional Services Miles Inc., Pharmaceutical Division	HMIS Code Health 1 Fire 0 Reactivity 0 Pers.Prot. 0
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SECTION 1 - IDENTITY

Common Name: (used on label)
(Trade Name & Synonyms) **BACTINE First Aid Spray (Aerosol)**

Product Code: 2025
Chemical Name:
Active ingredients: Benzalkonium chloride 0.13%;
lidocaine hydrochloride 2.5%

Chemical Family None	Formula Mixture	CAS No. None
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SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components - (chemical & common names) Isobutane Lidocaine HCl	Hazard Flammable Ingestion (Oral LD 50 = 220 mg/kg)	TLV Units Asphyxiant
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SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point Not applicable.	Specific Gravity (H₂O = 1) Not applicable.	Vapor Pressure (mm hg) Not applicable.
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Percent Volatile by Volume (%) 20 %	Vapor Density (Air = 1) Not applicable.	Evaporation Rate (=1) Not applicable.
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Solubility in Water Miscible	Reactivity in Water/Air Not reactive
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Appearance and Odor Slightly foamy aromatic liquid when discharged from aerosol container. Data below for butane propellant.

Flash Point 117°F Not applicable.	Flammable Limits in Air % by Volume		Auto-ignition Temperature 864°F
	<u>Lower</u>	<u>Upper</u>	
	1.8	8.4	

Extinguisher Media CO₂

Special Fire Fighting Procedures None

Unusual Fire and Explosion Hazards Exposure to temperature above 120°F may cause rupture of cans. Propellant (isobutane) is flammable when considered alone. Concentrate is aqueous and absolutely nonflammable. The combination (total product) is 80% concentrate and 20% isobutane, and has a DOT classification of nonflammable.

SECTION 4 - HEALTH HAZARDS

OSHA Permissible Exposure Limit Not established. **ACGIH Threshold Limit Value** Not established.

Other Exposure Limit Used Oral ingestions of lidocaine exceeding 7mg/kg (0.28ml/kg of Bactine First Aid Spray) may cause toxic symptoms. LD50 for Bactine Liquid in rats = 22.4 ml/kg.

Signs and Symptoms - Acute Overexposure See Section 8.

Signs and Symptoms - Chronic Overexposure Same as Acute.

Medical Conditions Generally Aggravated by Exposure Central nervous system and cardiovascular abnormalities.

Primary Route(s) of Exposure Topical, Inhalation, Oral

Emergency and First Aid Procedures Contact your regional poison control center or physician immediately. Additional information may be obtained by contacting Miles Inc. at 203/937-2373 or 1-800/468-0894.

Hygienic Practices Normal clinical.

Chemical Listed as Carcinogen or Potential Carcinogen None

Product Name: BACTINE First Aid Spray (Aerosol)

SECTION 5 - PHYSICAL HAZARDS

Stability:	Unstable []	Conditions to avoid
	Stable [x]	Puncturing, incineration, temperatures above 120°F

Incompatibility
(Materials to Avoid) None

Hazardous
Decomposition Products None

Hazardous	May Occur []	Conditions to Avoid
Polymerization	Will Not Occur [x]	

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection None required for normal use; SCBA for fire fighting. Hazardous only if intentionally misused by concentrating and inhaling contents.

Ventilation	Work Practices
Local exhaust for high concentrations	Not applicable.

Protective Gloves	Eye Protection
None for normal use.	None for normal use.

Other Protective
Clothing or Equipment None for normal use.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken
in Handling and Storage Avoid spraying in eyes. Contents under pressure. Do not puncture or incinerate. Do not store at temperature above 120°F.

Steps to be Taken in Case
Material is Released or Spilled Same as for any hydrocarbon-containing product (applicable to propellant only). Ventilate area, soak up bulk concentrate with absorbent. Wash small spills to drain.

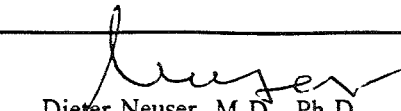
Waste Disposal
Methods This material contains a flammable hydrocarbon propellant under pressure. Dispose in accordance with Local, State & Federal regulations.

SECTION 8 - ADDITIONAL INFORMATION

WARNINGS: FOR EXTERNAL USE ONLY. Do not use in large quantities, particularly over raw surfaces or blistered areas. Avoid spraying in eyes, mouth, ears, or on sensitive areas of the body.

SIGNS AND SYMPTOMS OF EXPOSURE - ACUTE OVEREXPOSURE: Lightheadedness, dizziness, drowsiness, confusion, agitation, hearing loss, slurred speech, muscle incoordination and twitches, visual disturbances, seizures, arrhythmias, coma

Signature of Person
Responsible for Preparation



Dieter Neuser, M.D., Ph.D.

Date
Prepared March 1991

Telephone No.
219/264-8142

Date
Revised November 1991

The opinions expressed herein are those of qualified experts within Miles, Inc. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Miles, Inc., it is the user's obligation to determine the conditions of safe use of the product.