



**ABBOTT**

KENDALL #'s 92009, 9201F

HG# 45  
Pg. D1

**MATERIAL SAFETY DATA SHEET**

**Hospital Products Division Kendall Healthcare**

Abbott Laboratories  
Abbott Park  
North Chicago, Illinois 60064  
(312) 937-6100

Review Date: J. Fayer  
Approved by: 10/11/85

PRODUCT: Lidocaine Hydrochloride Inj., U.S.P.;	LIST/CODE: 1209	4903
Lidocaine Hydrochloride in 5% Dextrose Inj., U.S.P.;	1516	4904
Lidocaine Hydrochloride with 7.5% Dextrose;	1531	4923
Lidocaine Hydrochloride Topical Solution, U.S.P.	1540	4924
CHEMICAL NAME: 2(Diethylamino)2',6' acetoxylidide hydrochloride	4275	5648
(CAS #: 6108-05-0)	4276	6217
	4277	6247
	4278	6248
	4279	6249
	4281	6250
	4282	7916
	4283	7931
	4698	7939
	4712	8026
	4713	8027
		4776

PHYSICAL PROPERTIES

+ Appearance: Clear liquid		4281	6250
+ Solubility: Aqueous solution		4282	7916
+ Boiling Point: Water (approx.)	+ Vapor Pressure: N/A	4283	7931
+ Freezing Point: Water (approx.)	+ Vapor Density: N/A	4698	7939
+ pH: 3.0 - 7.0	+ Viscosity: Water (approx.)	4712	8026
+ % Volatile by Volume: Negligible	+ Specific Gravity: Water (approx.)	4713	8027
			4776

FIRE AND EXPLOSION HAZARD DATA

+ Flash Point: Non flammable	DMF	I- 218273	C- 8887600081
+ Extinguishing Media: N/A		I- 217691	C- 8887687146
+ Special Fire Fighting Procedure: None		I- 167680	C- 8887600040
+ Unusual Fire and Explosion Hazards: None		I- 164066	C- 8887600065
		I- 161612	C- 8887600073
		I- 161611	C- 8887600057
		I- 161610	C- 8887600032
		I- 161609	C- 8887600016

REACTIVITY

+ Incompatibility: None			
+ Hazardous Decomposition Products: N/D	DMF	I- 010297	C- 1017
		I- 010784	C- 7039
+ Conditions to Avoid: None		I- 009905	C- 1032

HEALTH RELATED DATA

NOTE: Contains Lidocaine Hydrochloride in aqueous solution. Health related data for this product based upon Lidocaine Hydrochloride content.

+ Hazard Listing: 29 CFR PART 1910 SUBPART Z/TLV.ACGIH X Not Listed  
Yes TLV N/A

+ Carcinogen: NTP/IARC X Not Listed  
Yes Comment: N/A

PRODUCT: Lidocaine Hydrochloride Inj., U.S.P.;  
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Lidocaine Hydrochloride Topical Solution, U.S.P.

HEALTH RELATED DATA (Continued)

- + Acute Oral Toxicity: Toxic LD<sub>50</sub> 220 - 457 mg/Kg in mouse
  - o Poisoning and death has occurred from accidental ingestion (1200 mg of 4% topical, 10 g Lidocaine HCl)
- + Acute Dermal Toxicity: o Continued topical application may lead to toxic serum concentrations.
  - o 75 ml of 1% Lidocaine maximum amount safe for topical application.
- + Acute Inhalation Toxicity: o Local anesthetic response possible from inhalation of dust.
  - o Lidocaine rapidly absorbed into blood following application of endotrachea spray (200 mg of 4% Lidocaine HCl).
- + Skin Irritancy: No data
- + Eye Irritancy: No data
- + Corrosivity: No data
- + Sensitization: o Reported on rare occasions to produce hypersensitivity responses of delayed onset including urticaria, edema or anaphalactoid symptoms.
- + Mutagenicity: No data
- + Teratogenicity: No data
- + Carcinogenicity: No data
- + Other:
  - o Overdoses of Lidocaine Hydrochloride result primarily in CNS and cardiovascular changes including light headedness, drowsiness, dizziness, apprehension, euphoria, tinnitis, altered vision, vomiting, sensation of heat-cold numbness, twitching, tremors, convulsions, unconsciousness, respiratory arrest, hypotension, cardiovascular collapse, bradycardia and cardiac arrest.
- + Target Organs: Nervous System, Cutaneous, and Heart
- + Emergency and First Aid Procedures: In case of contact flush eyes and wash skin with water.

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Lidocaine Hydrochloride Topical Solution, U.S.P.

SPECIAL PROTECTION INFORMATION

- + Ventilation: No special provisions required.
- + Respirator (type): None required.
- + Gloves (type): Gloves to minimize skin contact.
- + Eye Protection (type): Goggles
- + Other: N/A

SPECIAL HANDLING AND STORAGE

- + Special Precautions: None
- + Spill or Release Procedure: Absorb with suitable material, flush with water.
- + Waste Disposal: Dispose of solution in sewer. Bury in landfill.
- + Remarks: None

N/A = Not Applicable  
N/D = Not Determined

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# MATERIAL SAFETY DATA SHEET

PRODUCT NAME

Xylocaine solutions

EMERGENCY PHONE: 24 HOURS  
 1-800-922-8584

GENERAL INFORMATION PHONE:  
 1-617-366-1100

DATE THIS FORM PREPARED  
 September 1, 1987

SIGNATURE OF CERTIFYING COMPANY OFFICIAL

## 1. MATERIAL AND MANUFACTURER IDENTIFICATION

SYNONYM(S) CLASSIFICATION	Aqueous solutions of Xylocaine (Lidocaine hydrochloride) as pharmaceutical products.
PRODUCT USE	Local anesthetic products for use by injection.
MANUFACTURER NAME & ADDRESS	ASTRA Pharmaceutical Products, Inc. 50 Otis Street, Westborough, MA 01581

## 2. REGULATORY INFORMATION

DOT (HMTA) DEPARTMENT OF TRANSPORTATION	Not listed as a hazardous material	UN OR NA NUMBER None
EPA (CERCLA/RCRA) ENVIRONMENTAL PROTECTION AGENCY	Not listed as a hazardous substance	
OSHA (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	Not listed as a hazardous chemical	
EPA (TSCA) ENVIRONMENTAL PROTECTION AGENCY	Not listed as a hazardous chemical substance	

## 3. HAZARDOUS INGREDIENTS

NAME	CAS NUMBER	% CONC	OSHA PEL	ACGIH TLV	OTHER
Lidocaine hydrochloride	73-78-9	0.5 to 4.0	Not listed	Not listed	Not listed

### 4. PHYSICAL DATA

BOILING RANGE (°C)	~100	SOLUBILITY IN WATER	Soluble
MELTING POINT (°C)	~ 0	SPECIFIC GRAVITY (water = 1)	~ 1
VAPOR PRESSURE (mm Hg@20°C)	~17	EVAPORATION RATE (water = 1)	~ 1
VAPOR DENSITY (air = 1)	0.6	PHYSICAL STATE	Liquid
COLOR AND ODOR	Clear, odorless		

### 5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (AND METHOD USED)	Not flammable	FLAMMABLE LIMITS (STP) LOWER: N.A. UPPER: N.A.
EXTINGUISHING MEDIA	Not applicable	
SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT	None	
UNUSUAL FIRE AND EXPLOSION HAZARDS	None	

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### 6. REACTIVITY DATA

STABILITY	STABLE	<input checked="" type="checkbox"/>	CONDITIONS TO AVOID None
	UNSTABLE	<input type="checkbox"/>	
INCOMPATIBILITY <small>(MATERIALS TO AVOID)</small>	Compounds or materials which react violently with water.		
HAZARDOUS DECOMPOSITION PRODUCTS	None		
HAZARDOUS POLYMERIZATION	MAY OCCUR	<input type="checkbox"/>	CONDITIONS TO AVOID None
	WILL NOT OCCUR	<input checked="" type="checkbox"/>	

<p>HAZARD CLASSIFICATION BASED ON NFPA SYSTEM</p>	<p>HAZARD CODE</p> <p>4: EXTREME 3: HIGH 2: MODERATE 1: SLIGHT 0: NEGLIGIBLE</p>	<p style="text-align: center;">FLAMMABILITY</p> <div style="text-align: center;"> </div> <p style="text-align: center;">SPECIAL</p> <p>HEALTH <span style="float: right;">REACTIVITY</span></p>
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## 7. SPECIAL PROTECTION INFORMATION

VENTILATION	LOCAL EXHAUST <input checked="" type="checkbox"/> MECHANICAL (General) <input type="checkbox"/> SPECIAL <input type="checkbox"/>
RESPIRATORY PROTECTION (Specify Type)	None normally required
PROTECTIVE CLOTHING	None normally required
EYE PROTECTION	None normally required
OTHER PROTECTIVE EQUIPMENT	None normally required
WORK/HYGIENIC PRACTICES	Avoid ingestion and contact with eyes.

## 8. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Clean up spills with normal procedures used for non-hazardous liquids. HGT# 45 Pg. 6
DISPOSAL METHOD	Dispose as a non-hazardous waste.

## 9. SPECIAL PRECAUTIONS

HANDLING AND STORING REQUIREMENTS	Store in a cool, dry place. Avoid extremes in temperature. Handle to avoid breakage.
PRECAUTIONARY LABELING	None required. Caution against ingestion and contact with eyes recommended.

### COMMENTS:

Data and information for items 4 through 9 relate to the products as a whole (aqueous solutions).

# 10. HEALTH HAZARD DATA

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POTENTIAL CONTACT AND ROUTES OF ENTRY

INHALATION

INGESTION

SKIN

EYE

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BASIS OF HEALTH HAZARD DETERMINATION

PRODUCT AS A WHOLE

INDIVIDUAL CONSTITUENTS

HEALTH HAZARDS

Ingestion and systemic absorption of the products may result in toxic effects on the central nervous system and on the cardiovascular system. Allergic reactions may also occur.

Significant adverse effects on intact skin are unlikely. Contact with mucous membranes may cause irritation plus numbness and loss of sensation.

Contact with the eye may cause irritation. Eye contact will also cause numbness and loss of sensation.

SIGNS AND SYMPTOMS OF EXPOSURE

Systemic effects may include nervousness, confusion, drowsiness, blurred vision, vomiting, tremors, convulsion, respiratory depression, slowing of the heart, blood pressure drop, and unconsciousness.

EMERGENCY AND FIRST AID PROCEDURES

Call a physician. Medical attention should include maintenance of breathing and controlling convulsions if they occur. If eye contact occurs, wash thoroughly with clean water for 15 minutes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Hypersensitivity to local anesthetics of the amide type.

CARCINOGENICITY

NOT LISTED

NTP

IARC

OSHA

COMMENTS:

Lidocaine hydrochloride is a local anesthetic agent, and like all local anesthetics it can depress excitable tissues. Thus it may cause adverse effects on the nervous system, on respiration, and on the cardiovascular system.