

MATERIAL SAFETY DATA SHEET

LIDOCAINE HYDROCHLORIDE

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Lidocaine Hydrochloride, USP

SYNONYMS: Lignocaine Hydrochloride, Xylocaine Hydrochloride

MOLECULAR FORMULA: $C_{14}H_{22}N_2O \cdot HCl \cdot H_2O$ MOLECULAR WEIGHT: 288.8

CHEMICAL FAMILY: Amide anesthetic, antiarrhythmic

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Lidocaine hydrochloride (6108-05-0)	100	N/A	N/A

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A VAPOR PRESSURE: N/A

MELTING POINT: 76°-79°C VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A EVAPORATION RATE: N/A
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: 9 gm/ml WATER REACTIVE: No.

APPEARANCE AND ODOR: White, crystalline, odorless powder.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic material, this product may produce toxic carbon monoxide and dioxide fumes if heated to decomposition and airborne dust may present an explosion hazard.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: As with any organic material, this product may produce toxic carbon monoxide and dioxide fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: LD₅₀: Oral (mice) = 292 mg/kg

CARCINOGEN LISTED BY:	NTP	Yes ()	No (X)
	IARC	Yes ()	No (X)
	OSHA	Yes ()	No (X)
	Other	Yes ()	No (X)

ROUTES OF ENTRY: Inhalation, ingestion, absorption, contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Possible allergic reaction to dust if inhaled, ingested or in contact with skin. Local anesthesia, central nervous system reactions (i.e. excitatory and/or depressant), nervousness, dizziness, blurred vision, tremors, drowsiness, convulsions, unconsciousness, possible cardiac arrest.

ACUTE EFFECTS OF OVEREXPOSURE: Eye, skin and/or respiratory tract irritation, convulsions, dizziness or lightheadedness, drowsiness, unusually slow heart rate, difficulty in breathing, itching, skin rash, unusual swelling.

CHRONIC EFFECTS OF OVEREXPOSURE: Possible hypersensitization.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Existing cardiac conditions. Hypersensitivity.

EMERGENCY FIRST AID PROCEDURES: Persons developing hyper-sensitivity (anaphylactic) reactions must receive immediate medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical assistance.

EYE CONTACT: Flush with water for at least 15 minutes. If irritation persists or develops, seek medical attention.

SKIN CONTACT: Flush with water. If irritation persists or develops, seek medical attention.

INGESTION: Flush mouth with water and seek medical attention or contact a poison control center immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: NIOSH-approved dust respirator.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles recommended. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye damage.

VENTILATION: Local or general exhaust recommended to minimize airborne levels.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke near this material. Wash any contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eye, skin or clothing. Avoid breathing dust. Wash thoroughly after handling. Wash any contaminated clothing before reuse.

STORAGE PRECAUTIONS: Store in tight container in a cool, dry place.

OTHER PRECAUTIONS: Do not eat, drink or smoke near this material.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear all protective clothing including: respirator, goggles, gloves. Vacuum or sweep up spillage and place in a tight container. Ventilate and wash spill site. Wash thoroughly after handling and wash clothing and protective gear before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

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DEFINITIONS OF ABBREVIATIONS USED:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LD ₅₀ :	Median Lethal Dose
N/A:	Not available
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value