

Safety Data Sheet (SDS)

Lidocaine Hydrochloride

Revision Date: 2026-06-05

Version: 2.1

Format: OSHA HCS (29 CFR 1910.1200) / GHS

SECTION 1: Identification

- **Product Identifier:** Lidocaine Hydrochloride Monohydrate
- **Synonyms:** 2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide hydrochloride monohydrate
- **CAS Number:** 6108-05-0
- **Molecular Formula:** C₁₄H₂₂N₂O • HCl • H₂O
- **Company name:** Albochemicals LLC
- **Company website:** <http://www.albochem.com>
- **Recommended Use:** Laboratory reagent, raw chemical manufacturing, research and development.
- **Restrictions on Use:** Strictly for analytical or manufacturing use. Not for human or animal consumption. Not for diagnostic use. Not a finished drug product.

SECTION 2: Hazard(s) Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Acute toxicity, Oral (Category 4), H302

GHS Label Elements:

- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed.
- **Precautionary Statements:**
 - P264: Wash skin thoroughly after handling.
 - P270: Do not eat, drink, or smoke when using this product.
 - P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
 - P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	Concentration
Lidocaine Hydrochloride Monohydrate	6108-05-0	≥ 99.0%

SECTION 4: First-Aid Measures

- **General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- **Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Skin Contact:** Wash off immediately with soap and plenty of water. Consult a physician if irritation develops.
- **Eye Contact:** Flush eyes with water as a precaution. Remove contact lenses if present and easy to do.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Specific Hazards Arising from the Chemical:** Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.
- **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.
- **Environmental Precautions:** Do not let product enter drains.
- **Methods and Materials for Containment and Cleaning Up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

- **Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- **Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Store at room temperature (15-30°C). Protect from light and moisture.

SECTION 8: Exposure Controls / Personal Protection

- **Control Parameters:** Contains no substances with occupational exposure limit values (OSHA PEL, ACGIH TLV).
- **Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Ensure adequate ventilation.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face Protection:** Safety glasses with side-shields conforming to EN166 or NIOSH (US).
 - **Skin Protection:** Handle with gloves (e.g., Nitrile rubber). Gloves must be inspected prior to use.
 - **Body Protection:** Complete suit protecting against chemicals; type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - **Respiratory Protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Form: Solid, crystalline powder. Color: White.
- **Odor:** Odorless
- **pH:** 4.0 - 5.5 at 50 g/l at 25°C (77°F)
- **Melting Point:** 74 - 79°C (165 - 174°F)
- **Boiling Point:** No data available
- **Flash Point:** No data available
- **Flammability (solid, gas):** No data available
- **Solubility:** Soluble in water and alcohol.

SECTION 10: Stability and Reactivity

- **Reactivity:** No data available.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** No data available.
- **Conditions to Avoid:** Exposure to moisture or direct sunlight may affect product quality.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD50 Oral - Mouse - 292 mg/kg.
- **Skin Corrosion/Irritation:** No data available.
- **Serious Eye Damage/Eye Irritation:** No data available.
- **Respiratory or Skin Sensitization:** No data available.
- **Germ Cell Mutagenicity:** No data available.
- **Carcinogenicity:**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
- NTP: No component is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component is identified as a carcinogen or potential carcinogen by OSHA.
- **Reproductive Toxicity:** No data available.
- **Specific Target Organ Toxicity - Single/Repeated Exposure:** No data available.

SECTION 12: Ecological Information

- **Toxicity:** No data available.
- **Persistence and Degradability:** No data available.
- **Bioaccumulative Potential:** No data available.
- **Mobility in Soil:** No data available.
- **Other Adverse Effects:** No data available.

SECTION 13: Disposal Considerations

- **Waste Treatment Methods:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated Packaging:** Dispose of as unused product.

SECTION 14: Transport Information

- **DOT (US):** Not dangerous goods.
- **IMDG:** Not dangerous goods.
- **IATA:** Not dangerous goods.

SECTION 15: Regulatory Information

- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- **SARA 311/312 Hazards:** Acute Health Hazard.
- **Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.
- **Pennsylvania Right To Know Components:** Lidocaine hydrochloride monohydrate (CAS 6108-05-0).
- **New Jersey Right To Know Components:** Lidocaine hydrochloride monohydrate (CAS 6108-05-0).
- **California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

- **Further Information:** The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The manufacturer/supplier shall not be held liable for any damage resulting from handling or from contact with the above product.