

Section 1. Product and Company Identification

**Product Name** Lidocaine Hydrochloride  
**CAS Number** 6108-05-0

**Parchem - fine & specialty chemicals**

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification**

Acute Toxicity - Oral: (Category 3)

Sensitization - Skin: (Category 1)

Sensitization - Respiratory: (Category 1)

Carcinogenicity: (Category 2)

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

Toxic if swallowed.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

The substance is a powerful local anesthetic and should be considered as potentially harmful through exposure by dust inhalation and by ingestion

**Australia-Only Hazards**

Repeated exposure may cause skin dryness or cracking.



## Precautionary Statements

### Prevention

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapors, and spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection.

### Response

IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth.  
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms call a poison center or medical professional.  
IF EXPOSED OR CONCERNED: Get medical advice/attention

### Storage

Store locked up.

### Disposal

Dispose of contents and container in accordance with local regulations.

## HMIS Classification

**Health Hazard:** 3

**Flammability:** 0

**Reactivity:** 0

**Personal Protection:** G

## Section 3. Composition / Information on Ingredients

**Common Name** Lidocaine Hydrochloride  
**Synonym(s)** Lignocaine Hydrochloride (monohydrate); 2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide monohydrochloride monohydrate  
**Formula**  $C_{14}H_{22}N_2O \cdot HCl \cdot H_2O$   
**CAS Number** 6108-05-0

COMPONENT	CAS NUMBER	CONCENTRATION
Lidocaine Hydrochloride	6108-05-0	100% wt.

## Section 4. First Aid Measures

**Eye Contact:** Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid

**Skin Contact:** Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

**Ingestion:** Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician



**Symptoms and Effects:** May cause irritation and numbness.

Section 5. Firefighting Measures

**Specific Hazards Arising From the Chemical:** Not applicable

**Flammable Properties:** This material is assumed to be combustible

**Hazardous Combustion Products:** Under fire conditions, hazardous fumes will be present

**Extinguishing Media**

**Small fire:** Dry chemical, CO<sub>2</sub> or water spray.

**Large fire:** Dry chemical, CO<sub>2</sub>, alcohol resistant foam, or water spray. Do not get water inside containers.

**Protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. As with all fires, evacuate personnel to a safe area

**Notes:** As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity

Section 6. Accidental Release Measures

**Personal precautions:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Methods & material for containment:** On land, sweep or shovel into suitable containers. Minimize generation of dust.

**Cleanup procedure:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

Section 7. Handling and Storage

**Precautions for safe handling:** Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling

**Storage conditions:** Store in original container, tightly sealed container, protected from direct sunlight, in a dry, cool and well-ventilated area, away from incompatible materials. Store in



accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Preserve in well-closed containers. Protected from light. Store at room temperature

#### Section 8. Exposure Controls / Personal Protection

**OSHA PEL:** Not listed  
**ACGIH TLV:** Not listed  
**NIOSH:** Not listed  
**AIHA WEEL:** Not listed  
**Safe Work Australia HSIS:** Not listed  
**HSE:** Not listed

**Exposure Guidelines:** Consult local authorities for provincial or state exposure limits

#### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Specific Engineering Controls:** Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

**Notes:** The substance is a powerful local anesthetic and should be considered as potentially harmful through exposure by dust inhalation and by ingestion

#### Section 9. Physical and Chemical Properties

**Physical State:** Solid

**Description:** White, odorless, crystalline powder.

**Solubility:** Very soluble in water and in alcohol; soluble in chloroform; insoluble in ether.

**Odor:** Odorless or characteristic odor

**Flammability:** This material is assumed to be combustible

**Odor Threshold:** Not available

**pH:** 4.0 - 5.5 (5 g/L H<sub>2</sub>O)

**Melting Point:** 74 - 79°C (165.2 - 174.2°F)

**Boiling Point:** Not available

**Freezing Point:** Not available

**Flash Point:** Not available



**Specific Gravity:** Not available  
**Evaporation Rate:** Not available  
**Explosive Limit:** Not available  
**Upper Flammable/Explosive Limits:** Not available  
**Lower Flammable/Explosive Limits:** Not available  
**Vapor pressure:** Not available  
**Vapor Density (Air = 1):** Not available  
**Relative density (water = 1):** Not available  
**Log p (octanol-water):** Not available  
**Auto-ignition temperature:** Not available  
**Decomposition Temperature:** Not available  
**Viscosity:** Not available

#### Section 10. Stability and Reactivity

**Reactivity:** Not established

**Stability:** Stable under recommended storage conditions

**Materials To Avoid:** Strong oxidizing agents and strong mineral acids.

**Hazardous decomposition products:** When heated to decomposition, material emits toxic fumes of NO<sub>x</sub>. Emits toxic fumes under fire conditions.

**Hazardous Polymerization:** Will not occur

**Possibility Of Hazardous Reaction:** Not established

**Conditions To Avoid:** Moisture, Sunlight and extreme temperatures

#### Section 11. Toxicological Information

##### Acute Toxicity

**Oral: Rat: LD50: (mg/kg):** 220 - 317

**Dermal: Rabbit: LD50: (mg/kg):** Not available

**Inhalation: Rat: LD50: (mg/L/4hr):** Not available

**Skin Corrosion/Irritation:** Not available

**Serious eye damage/eye irritation:** Not available

**Respiratory or skin sensitization:** Local anesthetics may provoke types I and IV hypersensitivity reactions. Type I reactions (e.g. anaphylaxis) to local anesthetics are generally rare. Nevertheless, severe or fatal reactions have been associated

**Germ Cell Mutagenicity:** Not available

##### Carcinogenicity

**OSHA:** Lidocaine Hydrochloride is not listed.

**NTP:** Lidocaine Hydrochloride is not listed.

**IARC:** Lidocaine Hydrochloride is not evaluated.

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.



**Additional carcinogenicity information:** Metabolites of lidocaine have been shown to be carcinogenic in laboratory animals.

**Reproductive Toxicity:** Studies in animals have not shown that lidocaine causes adverse effects on the fetus. It is used as a local anesthetic during delivery.  
Serious adverse effects of epidural anesthesia are rare but lidocaine may have transient effects on the neonatal auditory system. No adverse effects have been seen in breastfed infants whose mothers were receiving lidocaine, and the American Academy of Pediatrics considers that it is therefore usually compatible with breast feeding

**Specific target organ toxicity – single exposure:** Not available  
**Specific target organ toxicity – repeated exposure:** Not available  
**Aspiration Hazards:** Not available

**Signs and symptoms of exposure:** Not expected to present a significant hazard under anticipated conditions of normal use. Lidocaine is an amide type anesthetic; it is readily absorbed from the gastrointestinal tract, from mucous membranes, and through damaged skin. Adverse effects may include numbness, burning, stinging or swelling of skin, drowsiness or excitement, nervousness, dizziness, blurred vision, tremors, convulsions, unconsciousness, and possible cardiac arrest. When taken orally, lidocaine may cause nausea, vomiting or abdominal discomfort. Possible allergic reaction to material if inhaled, ingested or in contact with skin

#### Potential Health Effects

**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** Toxic if swallowed.

**Skin:** Harmful if absorbed through skin. Causes skin irritation. May cause allergic skin reaction. May cause erythema or pigmentation.

**Eyes:** May cause eye irritation

**Notes:** The substance is a powerful local anesthetic and should be considered as potentially harmful through exposure by dust inhalation and by ingestion. Cross Sensitivity: Persons sensitive to other amide-type anesthetics, flecainide or tocainide may be sensitive to this material also.

#### Section 12. Ecological Information

##### Toxicity

**LC50:** 96hr: Fish: (mg/L): 106

**IC50:** 72hr: Algae: (mg/L): Not available

**EC50:** 48hr: Daphnia magna: (mg/L): 112

**Persistence and Degradability:** Not available

**Bioaccumulative Potential:** Not available

**Mobility in Soil:** Very soluble in water



**Other Adverse Effects:** Not available  
This product is not intended to be released into the environment

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**United States & Canada:** Not dangerous good  
**Australia:** Not dangerous good

**Environmental Hazards:** Not available  
**Special Shipping Information:** Not applicable

Section 15. Regulatory Information

**CERCLA 40 CFR Part 302.4:** No information available  
**SARA (Title III) 40 CFR Part 372.65:** No information available  
**EPA 40 CFR Part 355 Appendix A:** No information available  
**EPA 40 CFR Part 355 Appendix B:** No information available

**Right-to-know**

**Pennsylvania:** Not listed  
**New Jersey:** Not listed  
**Massachusetts:** Not listed

**California Prop 65:** Not listed

**Australian Regulations**

**Poisons and Therapeutic Goods Regulation:** Not listed  
**Therapeutic Goods Act:** Listed as Schedule 4 (Lidocaine Base)  
**Code of Practices - Illicit Drug Precursors:** Not listed

Section 16. Other Information

**Disclaimer:** 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.

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