



## Material Safety Data Sheet

According to ISO 11014-1:1994(E)

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1. IDENTIFICATION OF SUBSTANCE	
<b>Name:</b>	<b>LIDOCAINE VISCOUS SOLUTION 2%</b>
<b>Manufacturer:</b>	Department of Pharmacy Duke University Medical Center Box 3089 Durham, NC 27710 919-684-5125
<b>Information Department:</b>	Occupational and Environmental Safety Office Duke University Medical Center Box 3914 Durham, NC 27710 919-684-5996
<b>Emergency Information:</b>	Regional Poison Control Center 800-848-6946
2. COMPOSITION/INFORMATION ON INGREDIENTS	
<b>Chemical Characterization/Description:</b> Lidocaine hydrochloride (HCl) and sodium carboxymethylcellulose solution	
<b>Synonym(s):</b> Lidocaine HCl: 2-Diethylamino-2',6'-acetoxylidide hydrochloride, xylocaine hydrochloride; Sodium carboxymethylcellulose (CMC): Aqualon cellulose gum (CMC purified)	
<b>Dangerous Components (CAS#, Hazardous Chemical, Percent):</b>	
73-78-9	Lidocaine hydrochloride 2%
9004-32-4	Sodium CMC 2%
Multiple	Parabens 22% in propylene glycol <1%
N/A	Cherry flavor <1%
128-44-9	Sodium saccharin <0.1%
7732-18-5	Water Balance
3. HAZARDS IDENTIFICATION	
<b>Hazard Description:</b>	
Lidocaine HCl is a poison by ingestion, intraperitoneal, intravenous, subcutaneous, intramuscular, and intratracheal routes and a local anesthetic. It affects the cardiovascular and central nervous systems, can cause skin and eye irritation, and is a possible sensitizer. Sodium CMC may cause skin irritation and allergic dermatitis. It is mildly toxic by ingestion. (Hazard description based on concentrated constituents; this product is an aqueous solution.)	
<b>NFPA Ratings (scale 0-4):</b>	
Health	1
Fire:	0
Reactivity:	0

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**4. FIRST AID MEASURES**

**Inhalation:**

Remove victim to fresh air. Give oxygen or artificial respiration if necessary.

**Skin Contact:**

IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. Seek medical attention if warranted.

**Eye Contact:**

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.

**Ingestion:**

DO NOT INDUCE VOMITING.

If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. IMMEDIATELY transport the victim to a hospital.

If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open, and lay the victim on his/her side with the head lower than the body. Transport the victim IMMEDIATELY to a hospital.

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<b>5. FIRE-FIGHTING MEASURES</b>
<p><b>Suitable Extinguishing Agents:</b></p> <p>Use appropriate extinguishing media for surrounding fire.</p> <p><b>Protective Equipment:</b></p> <p>Self-contained breathing apparatus and protective equipment for fire fighting.</p>
<b>6. ACCIDENTAL RELEASE MEASURES</b>
<p><b>Personnel Precautions:</b></p> <p>Wear gloves (disposable surgical) and eye protection (chemical splash goggles).</p> <p><b>Environmental Precautions:</b></p> <p>None necessary under normal conditions of use.</p> <p><b>Measures for Cleaning/Collection:</b></p> <p>Use absorbent paper to pick up all liquid spill material. Seal the absorbent paper, as well as contaminated clothing, in a vapor-tight plastic bag for eventual disposal. Wash all contaminated surfaces with a soap and water solution.</p>
<b>7. HANDLING AND STORAGE</b>
<p><b>Handling:</b></p> <p>Wear PPE when handling this material. Wash hands after handling.</p>
<p><b>Storage:</b></p> <p>Store in a cool, dry, well-ventilated location.</p>

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Engineering Controls:**

None necessary under conditions of normal use.

**Control Parameters:**

<u>Chemical</u>	<u>Limit</u>	<u>Reference</u>
Lidocaine hydrochloride	N/A	N/A
Sodium CMC	N/A	N/A
Parabens 22% in propylene glycol	N/A	N/A

**Personal Protective Equipment:**

**Respiratory Protection**

None necessary under conditions of normal use.

**Skin Protection**

Wear gloves (disposable surgical) when using this chemical. If this chemical comes into contact with your gloves, or if a tear/puncture develops, remove gloves at once and wash hands.

**Eye Protection**

Splash-proof safety goggles should be worn while handling this chemical.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Viscous liquid

**Color and Odor:** Colorless, odorless

**pH:** N/A

**Boiling/Freezing Points (°C):**  
Approx. same as water.

**Flashpoint (°C):** N/A

**Autoignition Temperature (°C):** N/A

**Explosion Properties:** N/A

**Vapor Density (air = 1):** N/A

**Vapor Pressure (mm Hg):** N/A

**Specific Gravity (water = 1):** Approx. same as water.

**Solubility:** Soluble in water  
(aqueous solution).

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<b>10. STABILITY AND REACTIVITY</b>
<p><b>General:</b> This product is considered stable.</p> <p><b>Materials to Avoid:</b> None specified.</p> <p><b>Hazardous Decomposition Products:</b> When heated to decomposition, product may emit NO<sub>x</sub> and HCl.</p>
<b>11. TOXICOLOGICAL INFORMATION</b>
<p><b>Acute Toxicity:</b> Lidocaine hydrochloride is harmful if swallowed, inhaled or absorbed through the skin. The oral LD<sub>50</sub> is 220 mg/kg (mouse). Sodium CMC may cause skin irritation and allergic dermatitis. It is mildly toxic by ingestion. The oral LD<sub>50</sub> is 2.7 g/kg (rat).</p> <p><b>Signs/Symptoms of Overexposure:</b> Lightheadedness, dizziness, drowsiness, convulsions, slow heartbeat, cardiomyopathy including infarction, low blood pressure, difficulty breathing, itching, skin rash, swelling, hypersensitization.</p> <p><b>Chronic Toxicity:</b> This product is not considered a carcinogen by NTP, IARC, or OSHA. Lidocaine HCl is an experimental teratogen and other experimental reproductive effects have been reported. Sodium CMC in an experimental neoplastigen; experimental reproductive effects have been reported.</p>
<b>12. ECOLOGICAL EFFECTS</b>
None anticipated under normal conditions of use.
<b>13. DISPOSAL CONSIDERATIONS</b>
Dispose of all waste and contaminated materials associated with this chemical as specified by existing local, state and federal regulations concerning hazardous waste disposal. Contact the Occupational and Environmental Safety Office for specific guidance.
<b>14. TRANSPORT INFORMATION</b>
<b>Proper shipping name (DOT):</b> Not regulated by this mode of transportation.
<b>15. REGULATORY INFORMATION</b>
Lidocaine HCl is reported in EPA TSCA Inventory and Genetic Toxicology Program; sodium CMC is reported in EPA TSCA Inventory.
<b>16. OTHER INFORMATION</b>
This information is based on our present knowledge; however this shall not constitute a guarantee for any specific product features. No toxicity data are available on this specific formulation; this health hazard assessment is based on information that is available for its components.