Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section I. Product and Company Identification

Product Name	Lidocaine Hydrochloride USP Monohydrate	**Item Code**	30-1213
Commercial Name	Not available.	**CAS#**	6108-05-0
Synonym(s)	Diethylamino-2,6-dimethylacetanili e hydrochloride monohydrate	**RTECS**	AN7700000
		In case of emergency contact: **CHEMTREC (24hr) 1-800-424-9300**	
Supplier	PCCA 9901 South Wilcrest Houston, TX 77099	Phone 1-800-331-2498 Fax 1-800-874-5760	

Section II. Composition and Information on Ingredients

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Lidocaine Hydrochloride mon	6108-05-0	100	Not available.	ORAL (LD50):Acute: 220mg/kg [Rat].

Section III. Hazards Identification

Potential Acute Health Effects

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system. Repeated or prolonged exposure to the substance can produce target organs damage.

Section IV. First Aid Measures

Eye Contact

Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Other

Section V. Fire and Explosion Data

Flash Points

Not available.

Flammable Limits

May be combustible at high temperature.

Products of Combustion

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), halogenated compounds.

Fire Hazards

Not available.

Explosion Hazards

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Extinguishing Media to Avoid	
Other	

Section VI. Accidental Release Measures

Spill Cleanup Instructions	Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section VII. Handling and Storage

Handling and Storage Info.	Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents. Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. In case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Other Protective Measures and Equipment	Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Exposure Limits	Not available.

Section IX. Physical and Chemical Properties

Appearance	Solid. (Powdered solid.) Color: White.
Odor	Odorless.
Molecular Weight	288.82 g/mole
Boiling Point	Not available.
Melting Point	77°C (170.6°F)
Specific Gravity	Not available.
Vapor Pressure	Not applicable.
Vapor Density	Not available.
Viscosity	
Solubility	Not available.
Other	

Section X. Stability and Reactivity Data

Stability	The product is stable.
Conditions to Avoid	Not available.
Materials to Avoid	Reactive with oxidizing agents.

Other Non-corrosive in presence of glass.

Section XI. Toxicological Information

Routes of Entry Eye contact. Inhalation. Ingestion.

Toxicity Data Acute oral toxicity (LD50): 220 mg/kg [Rat]. Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). The substance is toxic to the nervous system.

Section XII. Ecological Information

Information Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

Section XV. Other Regulatory Information

Regulations Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;Pensylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

Other WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).;DSCL (EEC) R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section XVI. Other Information

Other

Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section I. Product and Company Identification

Product Name	Tetracaine Hydrochloride USP	**Item Code**	30-1241
Commercial Name	Tetracaine Hydrochloride	**CAS#**	136-47-0
Synonym(s)	4-Butylaminobenzoicacid-2-(dimethylamino)ethylester hydrochloride	**RTECS**	DG4900000
		In case of emergency contact: **CHEMTREC (24hr) 1-800-424-9300**	

Supplier

PCCA
9901 South Wilcrest
Houston, TX 77099

Phone 1-800-331-2498
Fax 1-800-874-5760

Section II. Composition and Information on Ingredients

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Tetracaine HCI	136-47-0	100	Not available.	ORAL (LD50): Acute: 160mg/kg [Mouse].

Section III. Hazards Identification

Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Severe over-exposure can result in death.

Potential Chronic Health Effects

Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV. First Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Serious Skin Contact: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Other

Section V. Fire and Explosion Data

Flash Points

Not available.

Flammable Limits

May be combustible at high temperature.

Products of Combustion

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Extinguishing Media to Avoid	Not available.
Other	Material in powder form, capable of creating a dust explosion.

Section VI. Accidental Release Measures

Spill Cleanup Instructions	Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Large Spill: Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Info.	Precautions: Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section VIII. Exposure Controls/Personal Protection

Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. In Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Other Protective Measures and Equipment	Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Exposure Limits	Not available.

Section IX. Physical and Chemical Properties

Appearance	Solid. (Solid crystalline powder.) Color: White.
Odor	Odorless.
Molecular Weight	300.83 g/mole
Boiling Point	Not available.
Melting Point	148°C (298.4°F)
Specific Gravity	Not available.
Vapor Pressure	Not applicable.
Vapor Density	Not available.
Viscosity	Not available.
Solubility	Soluble in cold water, hot water. Miscible in water.
Other	

Section X. Stability and Reactivity Data

Stability	The product is stable.
Conditions to Avoid	Not available.
Materials to Avoid	Reactive with oxidizing agents, alkalis.
Other	Hazardous polymerization will not occur. Non-corrosive in presence of glass.

Section XI. Toxicological Information

Routes of Entry Inhalation. Ingestion.

Toxicity Data Acute oral toxicity (LD50): 160 mg/kg [Mouse]. May cause damage to the following organs: central nervous system (CNS). Hazardous in case of skin contact (irritant), of ingestion, of inhalation. LD50[Rat] - Route: Intraperitoneal; Dose: 23500 ug/kg Acute Potential Health Effects: Skin: May cause skin irritation. May cause sensations of heat, cold or numbness. Eyes: Causes eye irritation. May cause sensations of heat, cold or numbness. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting. May affect respiration (respiratory depression) and behavior/central nervous system (central nervous system depression, muscle weakness, euphoria, confusion,dizziness, light-headedness, twitching, tremors, drowsines, convulsions, unconciousness), ears (tinnitus), vision (blurred vision, double vision), cardiovascular system (hypotension, myocardial depression, bradycardia, and possibly cardiac arrest, or cardiovascular collapse). May cause sensations of heat, cold or numbness. Chronic Potential Health Effects: Skin: It may be a sensitizer and cause dermatitis, an allergic reaction.

Section XII. Ecological Information

Information Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself.

Section XIII. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section XIV. Transport Information

DOT Classification CLASS 6.1: Poisonous material. Toxic Solid, organic, n.o.s. (Tetracaine Hydrochloride) UNNA: 2811 PG: III

Section XV. Other Regulatory Information

Regulations

Other

Section XVI. Other Information

Other

Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section I. Product and Company Identification

Product Name	Phenylephrine Hydrochloride USP	**Item Code**	30-1225
Commercial Name	Not available.	**CAS#**	61-76-7
Synonym(s)	(R)-3-Hydroxy-alpha-[(methylamino) ethyl]benzenemethanol hydrochlori	**RTECS**	DO7525000
		In case of emergency contact: **CHEMTREC (24hr) 1-800-424-9300**	
Supplier	PCCA 9901 South Wilcrest Houston, TX 77099	Phone 1-800-331-2498 Fax 1-800-874-5760	

Section II. Composition and Information on Ingredients

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Phenylephrine hydrochloride	61-76-7	100	Not available.	ORAL (LD50):Acute: 350mg/kg [Rat].120 mg/kg[Mouse].

Section III. Hazards Identification

Potential Acute Health Effects

Hazardous in case of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. The substance is toxic to lungs. The substance may be toxic to upper respiratory tract, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section IV. First Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. Serious Skin Contact:: Wash with a disinfectant soap and cover with an antibacterial cream. Seek medical attention.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Other

Section V. Fire and Explosion Data

Flash Points

Not available.

Flammable Limits

May be combustible at high temperature.

Products of Combustion

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards

Not available.

Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.
Extinguishing Media to Avoid	Do not use water jet.
Other	

Section VI. Accidental Release Measures

Spill Cleanup Instructions	LARGE SPILL: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section VII. Handling and Storage

Handling and Storage Info.	Handling: Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section VIII. Exposure Controls/Personal Protection

Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Other Protective Measures and Equipment	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Exposure Limits	Not available.

Section IX. Physical and Chemical Properties

Appearance	Solid. (Powdered solid.)
Odor	Odorless.
Molecular Weight	203.67 g/mole
Boiling Point	Decomposes.
Melting Point	143°C (289.4°F)
Specific Gravity	Not available.
Vapor Pressure	Not applicable.
Vapor Density	Not available.
Viscosity	Not available.
Solubility	Easily soluble in cold water, hot water.
Other	

Section X. Stability and Reactivity Data

Stability	The product is stable.
Conditions to Avoid	Excess heat.
Materials to Avoid	Reactive with oxidizing agents, acids.
Other	Corrosivity: Non-corrosive in presence of glass. Hazardous polymerization will not occur.

Section XI. Toxicological Information

Routes of Entry Inhalation. Ingestion.

Toxicity Data Acute oral toxicity (LD50): 120 mg/kg [Mouse]. May affect genetic material. May cause adverse reproductive effects (maternal effects(parturition) and fetotoxicity) based on animal data. No human data found. Acute Potential Health Effects: Skin and Eyes: May cause eye and skin irritaiton. May cause dilation of the pupils (mydriasis) Inhalation: May cause respiratory tract irritation. Ingestion: Harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. It may also affect the endocrine system, cardiovascular system(rapid, irregular pounding heart beat), respiration (dyspnea), and the brain. May affect behavior/central nervous system and cause convulsions, muscle weakness, somnolence, dizziness, nervousness, trembling, headache, increased sweating. Moderately toxic in high concentrations.

Section XII. Ecological Information

Information Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

Section XV. Other Regulatory Information

Regulations Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;Pensylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

Other WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).;DSCL (EEC) R22- Harmful if swallowed. R36- Irritating to eyes. R40- Possible risks of irreversible effects. R62- Possible risk of impaired fertility.;Lab coat.;Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section XVI. Other Information

Other