SAFETY DATA SHEET

1. Identification

Product identifier	**Prilocaine HCl**
Other means of identification	
Material number	702219, 702220, 702221
Recommended use	Pharmaceutical agent
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer	
Company name	Siegfried Evionnaz SA
Address	Route du Simplon 1,36 1902 Evionnaz Switzerland
Telephone	+41 27 766 1200
e-mail	she@siegfried.ch
Supplier	
Company name	Siegfried USA, LLC
Address	33 Industrial Park Road Pennsville, NJ 08070, USA
Telephone	(856) 678-3601
Emergency telephone number	1.866.519.4752 (US, Canada, Mexico), Access Code: 334531 For the United States, Canada, Argentina, Brazil, Mexico, Puerto Rico, Peru (+)1 760 476 3962

2. Hazard(s) identification

Physical hazards	Combustible dusts	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements

Signal word	Warning
Hazard statement	May form combustible dust concentrations in air. Harmful if swallowed. Causes skin irritation. Causes eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Prevent dust accumulation to minimize explosion hazard. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Propanamide, N-(2-methylphenyl)-2-(propylamino)-, monohydrochloride		1786-81-8	60-100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	Keep patient calm, remove to fresh air, seek medical attention. After inhalation of decomposition products: Immediately inhale corticosteroid dose aerosol.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. No specific antidote.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Foam. Dry powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed such as: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Nitrogen Oxides
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	May form combustible dust concentrations in air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimise dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see section 10 of the SDS). Protect from moisture. Protect from temperatures below: 15 °C. The packed product must be protected from temperatures below the indicated one. Protect from temperatures above: 25°C. The packed product must be protected against exceeding the indicated temperature.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear suitable protective clothing. Wash hands thoroughly after handling.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. In case of formation of dusts or aerosols, wear a particle filter with medium efficiency for solid and liquid particles.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations	Do not breathe dust. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Keep separated from food stuffs and feed stocks. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Crystalline powder.
Colour	White to off-white.
Odour	Characteristic.
Odour threshold	not determined
pH	4.7 (1%(m), 20°C)
Melting point/freezing point	167 - 169 °C (332.6 - 336.2 °F)
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	negligible
Flammability (solid, gas)	Not highly flammable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	For solids not relevant for classification and labelling.
Explosive limit – upper (%)	For solids not relevant for classification and labelling.
Vapour pressure	dropped
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	soluble
Solubility (other)	soluble solvents: alcohols, acetone
Partition coefficient (n-octanol/water)	2.12 (25°C) (OECD Guideline 107)
Auto-ignition temperature	not determined
Decomposition temperature	No decomposition if stored and handled as prescribed/indicated.
Viscosity	Not available.
Other information	Self ignition: Based on its structural properties the product is not classified as self-igniting.
Bulk density	290 kg/m3 (20°C)
Dynamic viscosity	Not relevant
Explosive properties	Not explosive.
Molecular formula	C13H20N2O.ClH
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimise dust generation and accumulation. Moisture. Humidity.
Incompatible materials	Strong oxidising agents. Reducing Agents. Water. Alkalies. Acids.

Hazardous decomposition products Decomposition products: Carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride. Sulphur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product	Species	Test results
Propanamide, N-(2-methylphenyl)-2-(propylamino)-, monohydrochloride (CAS 1786-81-8)		
Acute		
Oral		
	Rat	300 - 2000 mg/kg, (OECD Guideline 423)

Skin corrosion/irritation Causes skin irritation.
Slightly irritating. (Epiderm Corrosivity Test).

Serious eye damage/eye irritation Causes serious eye irritation.
Irritant. (HET-CAM test in vitro).

Respiratory or skin sensitisation

Respiratory sensitisation The chemical structure suggests a sensitizing effect.

Skin sensitisation The chemical structure suggests a sensitizing effect.

Germ cell mutagenicity The substance was not mutagenic in a test with mammals.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to form of product not applicable.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Product		Species	Test results
Propanamide, N-(2-methylphenyl)-2-(propylamino)-, monohydrochloride (CAS 1786-81-8)			
Aquatic			
Acute			
Algae	EC50	Algae	154 mg/l, 72 h
Crustacea	EC50	Daphnia magna	33.1 mg/l, 48 h (OECD Guideline 202, part 1, static) The details of the toxic effect relate to the nominal concentration.
Fish	LC50	Fish	188 mg/l, 96 h
Other	EC20	Activated sludge	760 mg/l, 180 min domestic, (OECD Guideline 209 aquatic). The details of the toxic effect relate to the nominal concentration.

Persistence and degradability Poorly biodegradable. Not readily biodegradable (by OECD criteria). Elimination information: < 10 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

Bioaccumulative potential Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Partition coefficient n-octanol / water (log Kow)
2.12, (25°C) (OECD Guideline 107)

Mobility in soil Assessment transport between environmental compartments: Adsorption in soil: Adsorption to solid soil phase is not expected.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 31-July-2016

Revision date -

Version No. 01

List of abbreviations LD50: Lethal Dose 50%.
EC50: Effective Concentration, 50%.

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