Safety Data Sheet

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

Section 1: Identification

Product Name Ciclopirox Olamine USP
Commercial Name Lorpox, Terit
Product Use Not available
Restrictions On Use Not available

Product Code 30-3069

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

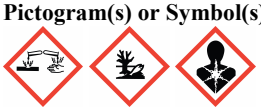
Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Skin irritation (Category 2) Skin sensitisation (Category 1) Eye irritation (Category 2) Respiratory sensitisation (Category 2) Specific target organ toxicity - single exposure (Category 3) Aquatic Chronic (Category 1)

Signal Word DANGER

Hazard Statement(s) May cause allergy or asthma symptoms of breathing difficulties if inhaled. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention P261 Avoid breathing dust/ fume/ gas/mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+ P351+ P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P310 Immediately call a POISON CENTER or doctor/physician P391 Collect spillage

Storage P404 Store in a closed container

Disposal P501 Dispose of contents/container in a site approved for chemical and hazardous waste or burned in a specialised burning centre

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Ciclopirox Olamine USP
% By Weight 100
CAS# 41621-49-2
Molecular Weight 268.4 g/mole
Chemical Formula C14-H24-N2-O3
Synonym(s) 2 - Aminoethanolcompd. with 6-cyclohexyl-1-hydroxy-4-methyl-2(1H)-pyridinone (1:1); 6-Cyclohexyl-1-hydroxy-4-methyl-2(1H)-pyridinone compd. with 2 - a m i n o e t h a n o l (1 : 1) ; 6-Cyclohexyl-1-hydroxy-4-methyl-2(1H)-pyridone ethanolamine salt; 6-Cyclohexyl-1-hydroxy-4-methyl-2(1H) -pyridone, 2-aminoethanol salt

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ciclopirox Olamine USP	41621-49-2	100	Not available.	ORAL (LD50):Acute: 2350mg/kg [Rat].1740 mg/kg[Mouse]. 3065mg/kg [Rabbit].

Section 4: First-Aid Measures

Inhalation Allow the victim to rest in a well ventilated area. Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. In severe cases or if symptoms persists, 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. If irritation persists, seek medical attention. Wash contaminated clothing before reusing

Eye Contact Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attentio

Ingestion Do not induce vomiting. 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

Symptoms/Effects

Acute Not available

Delayed Not available.

Immediate Medical Attention

Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

In case of fire use water, chemical type foam, carbon dioxide, dry chemical. Prevent run off of water from entering drains

Unsuitable Extinguishing Media

Not available.

Products of Combustion

The substance evolves toxic fumes due to the presence of CO, CO2, NO

Firefighters Special Equipment and Precautions

Wear: -Gas masks scuba -Complete protective equipment composed by: helmet whit face shield and neck protection, fireproof jacket and trousers with straps around arms, legs and waist. As not expected at this point, refer to the personal protective equipment recommended in Section 8 of this sheet

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep away any ignition source. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes. Ensure adequate ventilation. Methods and materials for containment and cleaning up: Absorb spillage in earth or sand. Sweep or shovel-up spillage and remove to a safe place. Damp down to avoid dust generation. Environmental precautions: Do not allow to penetrate the ground/soil. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system.

Section 7: Handling and Storage

Handling: This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet. It should always be handled in an efficient fume hood or equivalent system and, if necessary, wear protective equipment. Care should be taken to prevent the chemical from coming into contact with the skin or eyes and from contaminating personal clothing. Conditions for safe storage, including any incompatibilities: Avoid contact with oxidising substances For safety purposes, the substance does not require any special storage conditions. As an indication, the information provided by official monographs are: USP: Preserve in tight containers, protected from light. Store between 5°C and 25°C. EP: Store protected from light. For storage of the substance for pharmaceutical use, or for registration purposes please refer to the stability data conducted in-house and reported in the document regulatory "Active Substance Master File" (ASMF or DMF). Specific end uses: Laboratory investigations, testing of pharmaceutical technology. Formulation in pharmaceutical preparations

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.
Personal Protection	Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.The selected protective gloves have tosatisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Skin and body protection: The type of protective equipment (es. Tyvek suit) must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals, flame retardant antistatic protective clothing. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) with cartridges P1 (inert substances) P2 (harmful substances) P3 (toxic substances). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance	crystalline powder, white to pale yellow
Odor	odourless
Odor Threshold	Not available

Melting Point	above 200 °C with decompos	**pH**	Not available.
Freezing Point	Not available	**Vapor Pressure**	Not applicable.
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	above 200°C	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Not available	**Evaporation Rate**	Not available
Flash Point	Not available.	**Autoignition temperature**	Not available
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available
		Upper	Not available

Solubility(ies)	slightly soluable in water.
Other	Not available.

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	The product is stable in usual working conditions
Hazardous Polymerization	Not available.
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	Strong oxidising agents. Alkali metals, bases, strong acids, halogens
Hazardous Decomposition Products	The substance evolves toxic fumes due to the presence of CO, CO2, NOx.

Section 11: Toxicological Information

RTECS UU7785500

Acute Toxicity
Acute Oral LD 50 rat mg/kg 2350 Acute Oral LD 50 mouse mg/kg 1740 Acute I.V. LD 50 rat mg/kg 72 Acute I.V. LD 50 mouse mg/kg 71

Skin Corrosion/Irritation
Not available.

Serious Eye Damage/Irritation
Causes serious eye damage

Respiratory or Skin Sensitization
May cause an allergic skin reaction

Germ Cell Mutagenicity
Ames test: negative

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Reproductive Toxicity
Not available.

Routes of Entry
Not available

Symptoms Related to Exposure
Not available.

Potential Health Effects
May be harmful if swallowed. May cause allergy or asthma symptoms of breathing difficulties if inhaled

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity
LC50 (fish 96h) 0.32 – 0.56 mg/l EC50 (daphnia 48h) 2.3 mg/l IC50 (algae 72h) 0.37 mg/l EC50 (bacteria) 400 mg/l

Persistance and Degradability
Biodegradation: < 10%

Bioaccumulative Potential
Not available

Mobility in Soil
Not available

Other Adverse Effects
Not available

Section 13: Disposal Considerations

Waste Disposal
Do not empty into drains. Use appropriate containment to avoid environmental contamination. Disposal should be in accordance with local, state or national regulation.

Disposal of Container
The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.

Other Considerations
Not available

Section 14: Transport Information

DOT Classification
UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID Environment. hazard. subst., solid, n.o.s. (Ciclopirox Olamine)) IMDG Environment. hazard. subst., solid, n.o.s. (Ciclopirox Olamine)) IATA Environment. hazard. subst., solid, n.o.s. (Ciclopirox Olamine)) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG: marine pollutant IATA: no

Section 15: Regulatory Information

Regulations
Safety, health and environmental regulations/legislation specific for the substance no data available REACH exempted as API (Active Pharmaceutical Ingredient) CLP notified with submission KG864885-20 02-2119453869-20-0000

Other
WHMIS CLASS D-2B: Material causing other toxic (Canada) effects (TOXIC).;DSCL (EEC) R36/37/38- Irritating to eyes, respiratory system 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 16: Other Information

Not available.