

MATERIAL SAFETY DATA SHEET**H-CHLOR[®] SOLUTION, 473 mL****SECTION 1 IDENTIFICATION**PRODUCT NAME: H-CHLOR[®] SOLUTION, 473 mLMANUFACTURER: PATRIN PHARMA INC.
P.O. BOX 1481
SKOKIE, IL 60076
(800) 936-3088**SECTION 2 HAZARD(S) IDENTIFICATION**

ROUTE OF ENTRY: Ingestion.

HEALTH HAZARD:

INHALATION: Fumes may cause slight irritation of the respiratory tract.

EYE CONTACT: May cause redness, pain, and blurred vision. A solution of 5% (much greater concentration than H-Chlor[®]) splashed in human eyes has caused a burning sensation and later only slight superficial disturbance of the corneal covering which cleared completely within two days without special treatment.

SKIN CONTACT: Contact may be irritating. Sensitization dermatitis may occur in previously exposed persons.

INGESTION: Ingestion may cause corrosion of the mucous membranes, burning and inflammation of the mouth, blistering of the throat, and swelling of the pharynx and larynx. Abdominal spasm, nausea, vomiting, inflammation of the colon, abnormally low blood pressure, circulatory collapse, delirium and coma are possible.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT CLASS: Pharmaceutical

DESCRIPTION: Dilute solutions of sodium hypochlorite are used as topical antiseptics/anti-infectives

ACTIVE INGREDIENTS: Sodium Hypochlorite (Cas-Number: 7681-52-9) < 2%. Water > 98%

SECTION 4 FIRST-AID MEASURES

INHALATION: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Get medical attention immediately.

EYE CONTACT: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Continue irrigating with normal saline until the pH has returned to normal (30-60 minutes). Cover with sterile bandages. Get medical attention immediately.

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SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). In case of severe reaction, get medical attention immediately.

INGESTION: If conscious, give milk, melted ice cream, or beaten eggs to dilute and decompose the chemical. Do not use emesis or gastric lavage or acid antidotes. Antacids such as milk of magnesia or aluminum hydroxide gel are also useful. Maintain open airway, respiration, and blood pressure. Get medical attention immediately. (Driesch, Handbook of Poisoning, 11th. Ed.) Avoid use of sodium bicarbonate.

ANTIDOTE: The following antidote has been recommended. However, the decision as to whether the severity of poisoning requires administration of any antidote and actual dose required should be made by qualified medical personnel.

HYPOCHLORITE POISONING: If available, a few ounces of 1% sodium thiosulfate solution may be ingested and left in the alimentary tract. (Gosselin, Clinical Toxicology of Commercial Products, 5th E d .)

SECTION 5 FIRE FIGHTING MEASURES

Negligible fire hazard when exposed to heat or flame.

OXIDIZER: Oxidizers decompose, especially when heated, to yield oxygen or other gases which will increase the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion or explosion.

EXTINGUISHING MEDIA: Dry chemical, Carbon dioxide, Halon, Water spray or Standard foam (1987 Emergency Response Guidebook, DOT P 5800.4).

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus to protect against the hazardous byproducts of combustion, oxygen deficiency and toxic fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Assure adequate ventilation. Shut off ignition sources. Wear protective equipment where warranted to avoid direct contact and inhalation. Neutralize spill with slaked lime, sodium bicarbonate or crushed limestone. Take up with sand or other inert absorbent material and place into a suitable clean, dry, container for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Observe all federal, state and local regulations when storing or disposing of this material. Store closed at room temperature, 20-25C (68-77F). Excursions permitted 15-30C (59-85F). Do not refrigerate. Keep container closed when not using.

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CLOTHING AND GLOVES: Wear appropriate protective (impervious) clothing and equipment to prevent any possibility of skin contact with this substance.

EMERGENCY WASH FACILITIES: Where there is any possibility that eyes and/or skin may be exposed to this substance, an eye wash fountain and quick drench shower should be within the immediate work area for emergency use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: Clear liquid with an odor of bleach.

Sodium Hypochlorite (Cas-Number: 7681-52-9) < 2%. Water > 98%

SECTION 10 STABILITY AND REACTIVITY

STABILITY: The aqueous solution is stable for months under the proper storage conditions and until opened. Once opened, the exposure to ambient conditions, heat or sunlight accelerates decomposition.

INCOMPATIBILITIES:

ACIDS: Violent reaction, liberation of chlorine gas.

ALUMINUM: Corrosive action.

METHANOL: Explosive reaction.

NITROGEN COMPOUNDS: Forms explosive N-CHLORO compounds.

ORGANIC AND COMBUSTIBLE MATERIALS: Violent reaction.

REDUCING AGENTS: Violent reaction.

ZINC: Corrosive.

DECOMPOSITION: Thermal decomposition, or contact with acid, evolves corrosive chlorine gas. Slow decomposition evolves oxygen which accelerates the flammability of combustible material.

POLYMERIZATION: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

SECTION 11 TOXICOLOGY INFORMATION

TOXICITY DATA: No data available.

CARCINOGEN STATUS: None.

LOCAL EFFECTS: Corrosive - inhalation, skin, eye, ingestion.

ACUTE TOXICITY LEVEL: Insufficient data.

TARGET EFFECTS: Sensitizer- skin.

MATERIAL SAFETY DATA SHEET**H-CHLOR[®] SOLUTION, 473 mL****SECTION 12 ECOLOGICAL INFORMATION**

HAZARDOUS DECOMPOSITION: Thermal decomposition, or contact with acid, evolves corrosive chlorine gas. Slow decomposition evolves oxygen which accelerates the flammability of combustible material.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: This product is not currently considered a hazardous waste under federal regulations. Dispose of in accordance with all applicable federal, state, and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

NO SPECIFIC REQUIREMENTS

SECTION 15 REGULATORY INFORMATION

NONE

SECTION 16 OTHER INFORMATION

NONE