

1. **Product Name:** KONKLEEN

2. **Physical & Chemical Properties**

Appearance: Clear slightly fuming yellow-green liquid
 Odour: Pungent
 % Acidity: 20 - 22
 Shelf Life: One year in original, unopened containers

3. **Composition** CAS #

Hydrochloric Acid 7647-01-0
 Surfactants N/A
 Acid Inhibitor N/A

4. **Occupational Exposure Limits (Hazardous Ingredients)**

Material	Long Term - 8 Hr. TWA		Short Term - 10 Mins.	
	ppm	mg.m ³	ppm	mg.m ³
Hydrochloric Acid			5	7

5. **Health Hazard**

Area	Effects of Over Exposure	First Aid Procedure
Skin	Irritation and redness. Can cause severe burns	Drench area with warm water for at least 15 minutes. If burning is still evident seek medical attention.
Eyes	Severe irritation, can cause conjunctivitis and burns with impaired vision.	Irrigate with water for 15 minutes, lifting upper and lower lids. If pain and/or irritation persists seek medical attention.
Inhalation	Excess Inhalation of vapours can cause severe irritation of the upper respiratory tract resulting in coughing and burning of the throat. If deeply inhaled enema of the lungs may occur.	Move patient to fresh air, if breathing is difficult administer oxygen. Get medical attention.
Ingestion	Sore throat, cough, shortness of breath. May cause burning to the mouth, throat and esophagus. Nausea, headache. Vomiting and diarrhea may also be experienced.	Give one pint of water immediately to dilute the acid followed by one pint of milk. Seek medical attention immediately.

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6.Fire Hazard

This product is classified as : Non-Flammable, Corrosive.
Flash Point (°C) : N/A
Extinguishing Media : Carbon Dioxide, Dry Chemical, Water Fog, Foam, Halon
Conditions to Avoid : Strong oxidizing agents, strong alkali's
Decomposition Products : Various Hydrocarbons
Special Fire Fighting Procedures : Wear protective boots, suits, gloves, face shield, hard hat, NIOSH approved self-contained breathing apparatus. Remove containers from fire area, cool containers exposed to flames with water applied to the sides of container.

7.Handling & Storage

Precautionary Measures : Avoid skin contact. Protect containers from physical damage. Store in a cool, well ventilated place, away from oxidizing substances.
Ventilation : Good ventilation should be provided in enclosed areas
Local exhaust ventilation should be used to maintain tolerant levels of exposure. Avoid vapour inhalation.

Personal Protection

Respirator : Use of NIOSH respirators is necessary, especially in poorly ventilated areas
Skin : Wear acid-resistant gloves and boots, impervious clothing
Eyes : Face shield/Chemical splash goggles
Other : Wear impervious clothing or boots

8.Transport

Packing group : Acid/ Corrosive Label
UN /SI Number : 1789
UN Hazard Class : 8

9. Spillage/Disposal Method

SPILL : Spills should be handled immediately by neutralizing and dilution spilled material by the use of Soda Ash (Sodium Carbonate),Lime (Calcium Hydroxide) or Limestone (Calcium Carbonate) and large amounts of water. For small spills wash off with large amounts of water. For an interior spill be aware that dilution with the above would evolve Carbon Dioxide and as such ample ventilation is necessary.

DISPOSAL : Local waste disposal authority.

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