

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY TELEPHONE NUMBER CALL CHEMTREC 1-800-424-9300
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Decalcifying Solution - Hydrochloric Acid

SECTION 1 PRODUCT IDENTIFICATION

NAME: Decalcifying Solution - Hydrochloric Acid

Azer SCIENTIFIC ORDER NUMBERS: ES733, ES734

SYNONYMS: N/I

CAS NO: 7647-01-0

FORMULA: HCl

DOT INFORMATION: Proper Shipping Name - "Diagnostic Solution"
Hazard Class: Corrosive
UN Number: 3264
Packing Group: II

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

WARNING! LIQUID AND MAY CAUSE BURNS ON BODY SURFACES. MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. MAY CAUSE SKIN OR EYE IRRITATION. Keep container tightly closed. Avoid breathing vapor. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO -----	OSHA (PEL) -----	ACGIH (TLV) -----
<10% HCL	5 PPM	7.5 PPM

Hydrochloric Acid is subject to the reporting requirements of SARA 313 and 40CFR372.

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible

VAPOR PRESSURE (mm Hg): 1.8

SPECIFIC GRAVITY: 1

EVAPORATION RATE (BuAc=1): ca. 0.97

APPEARANCE AND ODOR: Clear, colorless liquid with chlorine odor.

BOILING POINT (C) : >100

VAPOR DENSITY: .7

MELTING POINT (C): 22

SECTION 4 FIRE / EXPLOSION HAZARD DATA

NFPA RATINGS: (Estimated) HEALTH: 1 FIRE: 0 REACTIVITY: 0
CONTACT RATING: 0
FLASH POINT (C): Not Flammable
AUTOIGNITION TEMPERATURE (C): Not Flammable
FLAMMABLE LIMITS (%): Not Flammable
EXTINGUISHING MEDIA: Not Flammable
SPECIAL FIRE FIGHTING PROCEDURES: Not Flammable
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Flammable

SECTION 5 REACTIVITY DATA

STABILITY: Stable under normal conditions. When exposed to freezing conditions acetic acid can contract causing the container to burst.
CONDITIONS TO AVOID: Excessive heat.
MATERIALS TO AVOID: Strong bases
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, chlorine, and nitrogen
HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND POTENTIAL EFFECTS OF OVEREXPOSURE

INHALATION: Inhalation of concentrated vapors may cause irritation to the lining of the mouth, throat and lungs.
SKIN CONTACT: Contact with concentrated solution may cause redness of the skin.
EYE CONTACT: Eye contact with concentrated solutions may cause irritation and redness.
INGESTION: Swallowing may cause diarrhea, vomiting and nausea.
CHRONIC EXPOSURE: Chronic inflammation of the nose, throat and mouth is seen.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Patients with preexisting skin or respiratory problems may be more susceptible to the effects of Hydrochloric Acid.
CARCINOGENICITY: None

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Get medical attention.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
INGESTION: Give patient large amounts of water or milk to dilute acid.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area and absorb spill with inert material and containerize for disposal.
WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.
STORAGE: Store tightly closed in an approved flammable liquid storage area. Store away from sunlight.

SECTION 8 CONTROL MEASURES

VENTILATION: Local preferred.
RESPIRATORY PROTECTION: Full face-piece respirator.
EYE PROTECTION: Chemical splash goggles and/or full face-shield. Maintain eye wash station in area where this reagent is used.
SKIN PROTECTION: Gloves, lab coat and impervious apron as necessary to prevent any skin contact

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