**HYDROCHLORIC ACID**

**SECTION I - PRODUCT INFORMATION**

**TRADE NAME:** Hydrochloric Acid, 30 Deg. Baumé

**CHEMICAL NAME & SYNONYM:** Hydrochloric Acid, 30 Deg. Baumé

**CHEMICAL FAMILY:** Inorganic Acid

**FORMULA:** HCL

**DOT PROPER SHIPPING NAME:** Corrosive Material

**D.O.T. HAZARD CLASS:** Corrosive Material

**D.O.T. IDENTIFICATION #:** 878

**D.O.T. LABEL:** Corrosive

**INVENTORY INFORMATION**

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PERCENT</th>
<th>TLV (UNIT: PPM)</th>
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<tr>
<td>Hydrochloric Acid</td>
<td>21.48</td>
<td>9 ppm</td>
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**SECTION III - PHYSICAL DATA**

**BOILING POINT (FED.):** 100 - 200

**FREEZING POINT (FED.):** 51.4

**SPECIFIC GRAVITY:** 1.180

**Density:** 1.18

**VISCOITY:** 100°F (60°C)

**VAPOR DENSITY (AIR):** 1.27

**EVAPORATION RATE:** 1.1

**SOLUBILITY IN WATER:** 100%

**SECTION III - PHYSICAL PROPERTIES**

**APPEARANCE AND ODOR:** Clear, colorless to faint yellow liquid. Sharp, penetrating odor.

**FLAMMABLE LIMITS:** LEL: N.A.

**UEL: N.A.**

**EXTINGUISHING MEDIA:** For fires in area use appropriate media. For example: Water spray. Dry Chemical. Carbon Dioxide. Alcohol foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Evaluate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus. Product generates heat upon addition of water, with possible decomposition to chlorine gas. Use of dry chemical agents to control any fire, causing pollution. Neutralize runoff with lime, soda ash, etc., to prevent corrosion of metals and formations of Hydrazine gas.

**UNUSUAL FIREFIGHTING PROPERTIES:** Reaction with some metals (Al, Pb, Sn, etc.) to release flammable Hydrogen gas.React with some metals (Al, Pb, Sn, etc.) to release flammable Hydrogen gas.

**SECTION V - HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE:** 5 ppm (OSHA 29 CFR 1910.1)

**5 ppm (ACGIH 1984-85).**

**SECTION VI - REACTIVITY DATA**

**SECTION VII - STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK**

**CONSULT SAFETY EQUIPMENT DISTRIBUTOR**

**RESPIRATORY PROTECTION:** If TLV is exceeded wear: NIOSH-approved self-contained breathing apparatus.

**VENTILATION:** Maintain adequate ventilation. Keep levels below recommended TLV, avoid mist formation.

**PROTECTIVE GLOVES:** Acid-proof. Gauntlet-type. Rubber (latex).

**EYE PROTECTION:** Chemical Safety Goggles. Face shield. Do not wear contact lenses.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**


**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

**STORAGE:** Corrosive Material. Store in cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Keep container tightly closed. Expose to moisture (in open system) reacts extremely exothermically. Store away from incompatible materials.

**PRECAUTIONS FOR USE OR HANDLING:** Avoid contact with skin and eyes. Do not swallow. Use with adequate ventilation. Avoid prolonged or repeated exposure to vapors. Wash thoroughly after handling. Avoid dust or mist formation.

**STABILITY & INERTNESS:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Contact with water may cause violent reaction with evolution of heat. May ignite or explode violently in contact with water.