

OFI TESTING EQUIPMENT, INC.
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION	
Chemical Name:	HYDROCHLORIC ACID SOLUTION <.02%
Trade Name:	PARAFORMALDEHYDE TEST SOLUTION "D"
OFI Part No.	145-304
Chemical Family:	HYDROCHLORIC ACID
Formula:	HCl : H ₂ O
Manufacturer:	OFI Testing Equipment, Inc. 1006 West 34 th Street Houston, TX 77018 U.S.A. (713) 880-9885
In Case of Emergency Spills, Leaks, Fire, Exposure or Accident:	In the USA, call INFOTRAC at 1-800-535-5053 day or night Outside the USA, call collect, (352) 323-3500
SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS	
CAS #:	CHEMICAL NAME
7647-01-0	Hydrogen Chloride <.02%
SECTION III - HAZARD IDENTIFICATION	
Emergency Overview:	May Cause Gastrointestinal Disturbances and Eye Irritation, Redness and Pain.
Inhalation:	Not Expected to Be a Health Hazard.
Ingestion:	Large Oral Doses may Cause Gastrointestinal Disturbances.
Skin:	No Adverse Effects Expected.
Eye Contact:	May Cause Irritation, Redness and Pain.
Chronic Exposure:	No Information Found.
Aggravated by Exposure:	No Information Found.
SECTION IV - FIRST AID MEASURES	
Inhalation:	Not Expected to Require First Aid Measures
Ingestion:	Give Several Glasses of Water to Drink to Dilute. If Large Amounts were Swallowed.
Skin:	Not Expected to Require First Aid Measures.
Eyes:	Wash Thoroughly with Running Water. Get Medical Advice if Irritation Develops.
SECTION V - FIRE FIGHTING MEASURES	
Fire:	Not Considered to be a Fire Hazard.
Explosion:	Not Considered to be an Explosion Hazard.
Fire Extinguishing Media:	Use any Means Suitable for Extinguishing Surrounding Fire.
Special Information:	In the Event of Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Facepiece Operated in the Pressure Demand or Other Positive Pressure Mode. Structural Firefighter's Protective Clothing is Ineffective for Fires Involving Hydrochloric Acid. Cool Tanks with Water Spray until Well After Fire is Out.
SECTION VI - ACCIDENTAL RELEASE MEASURES	
	Dilute with Water and Flush to Sewer if Local Ordinances Allow, Otherwise, Whatever Cannot be Saved for Recovery or Recycling should be Managed in an Appropriate and Approved Waste Disposal Facility. Processing, Use or Contamination of this Product may Change the Waste Management Options.
SECTION VII - HANDLING AND STORAGE	
	Store in a Cool, Dry, Ventilated Storage Area with Acid Resistant Floors and Good Drainage. Protect from Physical Damage. Keep Out of Direct Sunlight and Away from Heat, Water, and Incompatible Materials. Do Not Wash out Container and Use it for Other Purposes. Never Use Hot Water and Never Add Water to Acid when Diluting. Water Added to Acid can Cause Uncontrolled Boiling and Splashing. Containers of this Material May be Hazardous when Empty Since they Retain Product Residues (Vapors, Liquid).
SECTION VIII - EXPOSURE CONTROL / PERSONAL PROTECTION	
Ventilation System:	Not Expected to Require any Special Ventilation.
Airborne Exposure Limits:	Not Applicable.
Personal Respirators: (NIOSH APPROVED)	Not Expected to Require Personal Respirator Usage.
Skin Protection:	Wear Protective Gloves and Clean Body-Covering Clothing.
Eye Protection:	Use Chemical Safety Glasses. Maintain Eye Wash Fountain and Quick-Drench Facilities in Work Area.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES																					
Appearance / Odor:	Clear Colorless Liquid / Odorless																				
Solubility:	Infinitely Soluble																				
Specific Gravity:	1.0 at 59 °F (15 °C)																				
pH:	No Information Found																				
% Volatiles by Vol.:	> 99% @ 70 °F (21 °C)																				
Melting Point:	No Information Found																				
Boiling Point:	212 ° F (100 °C)																				
Vapor Density (Air=1):	No Information Found																				
Vapor Pressure (mmHg):	Essentially the Same as Water																				
SECTION X - STABILITY AND REACTIVITY																					
General Reactivity:	Stable Under Ordinary Conditions of Use and Storage.																				
Hazardous Decomposition:	No Information Found.																				
Incompatibilities:	No Incompatibility Data Found.																				
Hazardous Polymerization:	Will Not Occur.																				
SECTION XI - TOXICOLOGICAL INFORMATION																					
Carcinogenic References:	Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No																				
SECTION XII - ECOLOGICAL INFORMATION																					
	When Released into the Soil, this Material is Not Expected to Biodegrade. When Released into the Soil, this Material may Leach into Groundwater.																				
SECTION XIII - DISPOSAL CONSIDERATIONS																					
	State and Local Disposal Regulations May Differ from Federal Disposal Regulations. Dispose of Container and Unused Contents in Accordance with Federal, State and Local Requirements.																				
SECTION XIV - TRANSPORT INFORMATION																					
Hazard Class:	Not Regulated																				
Identification No.:	Not Regulated																				
SECTION XV - REGULATORY INFORMATION																					
Chemical Inventory Status – Part 1:	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>TSCA</th> <th>EC</th> <th>Japan</th> <th>Australia</th> </tr> </thead> <tbody> <tr> <td>Hydrogen Chloride (7647-01-0)</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Water (7732-18-5)</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>	Ingredient	TSCA	EC	Japan	Australia	Hydrogen Chloride (7647-01-0)	Yes	Yes	Yes	Yes	Water (7732-18-5)	Yes	Yes	Yes	Yes					
Ingredient	TSCA	EC	Japan	Australia																	
Hydrogen Chloride (7647-01-0)	Yes	Yes	Yes	Yes																	
Water (7732-18-5)	Yes	Yes	Yes	Yes																	
Chemical Inventory Status – Part 2:	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Korea</th> <th>DSL</th> <th>NDSL</th> <th>Phil.</th> </tr> </thead> <tbody> <tr> <td>Hydrogen Chloride (7647-01-0)</td> <td>Yes</td> <td>Yes</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>Water (7732-18-5)</td> <td>Yes</td> <td>Yes</td> <td>No</td> <td>Yes</td> </tr> </tbody> </table>	Ingredient	Korea	DSL	NDSL	Phil.	Hydrogen Chloride (7647-01-0)	Yes	Yes	No	Yes	Water (7732-18-5)	Yes	Yes	No	Yes					
Ingredient	Korea	DSL	NDSL	Phil.																	
Hydrogen Chloride (7647-01-0)	Yes	Yes	No	Yes																	
Water (7732-18-5)	Yes	Yes	No	Yes																	
Federal, State & International Regulations – Part 1:	<table border="1"> <thead> <tr> <th>Ingredient</th> <th colspan="2">-SARA 302-</th> <th colspan="2">-SARA 313-</th> </tr> <tr> <td></td> <th>RQ</th> <th>TPQ</th> <th>List</th> <th>Chemical Catg.</th> </tr> </thead> <tbody> <tr> <td>Hydrogen Chloride (7647-01-0)</td> <td>5000</td> <td>500*</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Water (7732-18-5)</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> </tbody> </table>	Ingredient	-SARA 302-		-SARA 313-			RQ	TPQ	List	Chemical Catg.	Hydrogen Chloride (7647-01-0)	5000	500*	Yes	No	Water (7732-18-5)	No	No	No	No
Ingredient	-SARA 302-		-SARA 313-																		
	RQ	TPQ	List	Chemical Catg.																	
Hydrogen Chloride (7647-01-0)	5000	500*	Yes	No																	
Water (7732-18-5)	No	No	No	No																	
Federal, State & International Regulations – Part 2:	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>CERCLA</th> <th>-RCRA-</th> <th>-TSCA-</th> </tr> <tr> <td></td> <td></td> <td>261.33</td> <td>8(d)</td> </tr> </thead> <tbody> <tr> <td>Hydrogen Chloride (7647-01-0)</td> <td>5000</td> <td>No</td> <td>No</td> </tr> <tr> <td>Water (7732-18-5)</td> <td>No</td> <td>No</td> <td>No</td> </tr> </tbody> </table>	Ingredient	CERCLA	-RCRA-	-TSCA-			261.33	8(d)	Hydrogen Chloride (7647-01-0)	5000	No	No	Water (7732-18-5)	No	No	No				
Ingredient	CERCLA	-RCRA-	-TSCA-																		
		261.33	8(d)																		
Hydrogen Chloride (7647-01-0)	5000	No	No																		
Water (7732-18-5)	No	No	No																		
Chemical Weapons Convention:	No																				
TSCA 12 (b):	No																				
CDTA:	Yes																				
SARA 311/312:	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Mixture / Liquid)																				
Australian Hazchem Code:	None allocated.																				
Poison Schedule:	None allocated.																				
SECTION XVI - OTHER INFORMATION																					
NFPA Rating:	HEALTH-1, FLAMMABILITY-0, REACTIVITY-0																				
Disclaimer:	The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein and assume no responsibility regarding the suitability of this information for the user's intended purpose or for the consequence of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).																				