

***MSDS******Material Safety Data Sheet***

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**Hydrochloric Acid Solution, 1.0 Normal**

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**SECTION 1 PRODUCT IDENTIFICATION**

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NAME: Hydrochloric Acid Solution, 1.0 Normal  
EKI PRODUCT CODE: 5100  
SYNONYMS: N/A  
CAS NO: N/A  
FORMULA: N/A  
REVISION DATE: 1 December 2006

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

WARNING. CAUSES IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with skin, eyes and clothing. Avoid breathing mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

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**SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS**

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INGREDIENT -----	CAS NO -----	OSHA PEL -----	ACGIH TLV -----
Hydrochloric Acid	7647-01-0	5 ppm CEIL	2 ppm CEIL

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**SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS**

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SOLUBILITY IN WATER: Complete	BOILING POINT: N/A
VAPOR PRESSURE: N/A	VAPOR DENSITY: N/A
SPECIFIC GRAVITY: N/A	MELTING POINT: N/A
EVAPORATION RATE: N/A	
APPEARANCE AND ODOR: Colorless liquid. Hydrochloric acid odor.	

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**SECTION 4 FIRE / EXPLOSION HAZARD DATA**

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FLASH POINT: N/A  
FLAMMABLE LIMITS (UPPER AND LOWER): Upper: N/A Lower: N/A  
EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Reacts with most metals to produce hydrogen gas, which can form an explosive mixture with air.

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## SECTION 5 REACTIVITY DATA

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STABILITY: Stable

CONDITIONS TO AVOID: Heat

MATERIALS TO AVOID: Most common metals, strong bases, metal oxides, amines, carbonates, sulfuric acid, chlorosulfonic acid

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, hydrogen, chlorine

HAZARDOUS POLYMERIZATION: Will not occur.

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## SECTION 6 HEALTH HAZARD DATA

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ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:

INHALATION: May cause respiratory tract irritation.

SKIN CONTACT: May cause irritation.

EYE CONTACT: Causes irritation.

SKIN ABSORPTION: None identified

INGESTION: May cause mucous membrane irritation.

CHRONIC: None identified

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None identified

CARCINOGENICITY: IARC-3. Not classifiable as to human carcinogenicity.

### \*\*\*\*FIRST AID PROCEDURES\*\*\*\*

EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash with plenty of soap and water. Get medical attention for persistent irritation.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: If swallowed, do NOT induce vomiting. If conscious, give several glasses of water to drink. Get immediate medical attention.

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## SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Neutralize spill with soda ash or lime. Scoop material in suitable container for disposal. Flush residual spill with water.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed at 15-30C.

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## SECTION 8 CONTROL MEASURES

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VENTILATION: Local or general

RESPIRATORY PROTECTION: Not required

EYE PROTECTION: Chemical goggles

GLOVES: Chemical gloves

OTHER PROTECTIVE CLOTHING: Lab coat

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