

MATERIAL SAFETY DATA SHEET

PART NUMBER: R-293
IDENTITY: 1N Hydrochloric acid
MANUFACTURER: ROSEMOUNT ANALYTICAL INC. CAS #:
ADDRESS: 2400 BARRANCA PARKWAY DATE REVISED: 01/26/11
IRVINE, CA 92606 PREPARED BY: R. MORRISON
TELEPHONE: 949/757-8500 REVISED BY: T. PHILLIPS
(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
HYDROCHLORIC ACID	7647-01-1	3.7	TWA	N/A	N/A
NON-HAZARDOUS INGREDIENTS		96.3			
TOTAL		100			

No health hazard or other information is available for the solution of the mixture. The following sections are based on information obtained from <http://www.jtbaker.com/msds/englishhtml/H3883.htm> and our best scientific understanding of the solution.

SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 100°C
SPECIFIC GRAVITY (H₂O = 1) 1.0
VAPOR PRESSURE (mm Hg/TEMPERATURE) 24 mmHg 25°C
MELTING POINT N/A
VAPOR DENSITY (AIR = 1) N/A
EVAPORATION RATE (= 1) N/A
SOLUBILITY IN WATER COMPLETE
WATER REACTIVE N/A
APPEARANCE AND ODOR COLORLESS, ODORLESS

SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USED N/A
AUTO IGNITION TEMPERATURE N/A
FLAMMABILITY LIMITS IN AIR % BY VOLUME N/A
LEL N/A
UEL N/A
EXTINGUISHER MEDIA N/A
SPECIAL FIRE FIGHTING PROCEDURES N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS IS AN AQUEOUS SOLUTION WHICH IS NOT EXPLOSIVE OR FLAMMABLE.

SECTION 4--REACTIVITY HAZARD DATA

STABILITY: STABLE X UNSTABLE___
CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
HAZARDOUS POLYMERIZATION: MAY OCCUR___ WILL NOT OCCUR X

SECTION 5--HEALTH HAZARD DATA: R-293

PRIMARY ROUTES OF ENTRY: INHALATION___ SKIN ABSORPTION X
INGESTION X NOT HAZARDOUS___

CARCINOGEN LISTED: NTP___ IARC___ OSHA___ NOT LISTED X
HEALTH HAZARDS

ACUTE: SLIGHT SKIN IRRITATION DUE TO ACIDIC NATURE OF SOLUTION
CHRONIC: UNKNOWN

SIGNS AND SYMPTOMS OF EXPOSURE: BURNING SENSATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMATITIS, ECZEMA

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER 15 MINUTES.

SKIN CONTACT: WASH AREA WITH WATER/BAKING SODA MIXTURE TO NEUTRALIZE.

INHALATION: MOVE TO FRESH AIR IF NECESSARY.

INGESTION: SEEK MEDICAL ASSISTANCE.

SECTION 6--CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSHA/OSHA APPROVED RESPIRATOR

PROTECTIVE GLOVES: YES

EYE PROTECTION: YES

VENTILATION TO BE USED

LOCAL EXHAUST: RECOMMENDED

MECHANICAL (GENERAL): REQUIRED

SPECIAL:

OTHER (SPECIFY): N/A

PROTECTIVE CLOTHING AND EQUIPMENT: LAB COAT/APRON

HYGIENIC WORK PRACTICES: WASH HANDS THOROUGHLY AFTER HANDLING.

SECTION 7--PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: RINSE AREA WITH WATER/BAKING SODA MIXTURE TO NEUTRALIZE; MOP.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN DRY, ROOM TEMPERATURE AREA.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: N/A

RATING:

HEALTH 3 FLAMMABILITY 0 REACTIVITY 0 SPECIFIC NONE