

MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: ACT R-269 Hydrochloric Acid 1:1

MSDS NUMBER: 12/16/2001R269

PRODUCT CODE: Test Reagent

MSDS DATE: 12/16/2001

KEY NUMBER: R-269

EMERGENCY PHONE #'s: (800) 255-3924 (ChemTel)



Advanced Chemical Technology LLC

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

HEALTH	3	Extreme Danger
FIRE	0	Will Not Burn
REACTIVITY	0	Stable
SPECIFIC	Corrosive - COR	

1. IDENTIFICATION

See Addendum: Ref. PAGE:

Chemical Name: Hydrochloric Acid

Chemical Family: Test Reagent

CAS #: 7647-01-0

Chemical Formula: HCl

CAS Name: Hydrogen chloride (Hydrochloric Acid)(SARA III)

Molecular Weight: 36.5

Synonyms / Common Name: Hydrochloric Acid

DOT Information: PSN Code HJG, DOT Class 8, Pack Group 8, Corrosive, DOT Proper Shipping Name: Hydrochloric Acid, Solution

2. PHYSICAL DATA

See Addendum: Ref. PAGE:

Appearance: Colorless Liquid

Color: Colorless

State: Liquid

Odor Characteristics: Pungent

pH: <1

Viscosity: ND

Specific Gravity (Water = 1): 1.092

Vapor Density (Air = 1): 0.6

Vapor Pressure: 17

Melting Point: ND

Boiling Point: 215 °F

Flash Point: None

Freezing Point: ND

Percent Volatility: ND

Evaporation Rate (BAc = 1): <1

Solubility in Water: Complete

Solubility in Oil: ND

Solubility in Acetone: ND

3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Hydrochloric Acid	7647-01-0	Hydrogen chloride	7 mg/m3	

4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

Flash Point: None

Flammable Limits in Air % by volume: Lower NA
Upper NA

Extinguishing Media: Carbon dioxide, alcohol foam, dry chemical

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing

Unusual Fire & Explosion Hazards: Product will float on water

**Advanced Chemical Technology LLC**

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

PRODUCT NAME: ACT R-269 Hydrochloric Acid 1:1

MSDS NUMBER: 12/16/2001R269

MSDS DATE: 12/16/2001

PRODUCT CODE: Test Reagent

KEY NUMBER: R-269

5. HEALTH HAZARD DATA See Addendum:

PAGE #:

Threshold Limit Value: 7mg/m³**Effects of Overexposure:****Inhalation:** Causes severe respiratory irritation**Skin Contact:** Severe irritation and possible burns**Eye Contact:** Causes severe irritation and possible eye damage**Ingestion:** Severe irritation of mouth and throat**Delayed Effects:** Prolonged contact may result in destruction of tissue**Medical Conditions Aggravated by Exposure:** Not known**6. FIRST AID MEASURES** See Addendum:

PAGE #:

Inhalation: If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Flush with water for 5 minutes**Eye Contact:** Flush with water for 15 minutes and obtain medical attention.**Ingestion:** Drink small amounts of water for dilution and obtain medical attention. Do not induce vomiting**NOTES TO PHYSICIAN:** None**7. REACTIVITY DATA** See Addendum:

PAGE #:

Stability: Stable**Incompatibility:** Strong oxidizers, strong caustic, metals
(materials to avoid)**Hazardous Combustion or Decomposition Products:** Hydrogen, hydrogen chloride**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** See Addendum:

PAGE #: 4

Actions to take for Leaks & Spills: Neutralize spilled material with lime or soda ash. Squeegee and collect, or vacuum spillage and place in container for disposal. Flush spill area with water.**Waste Disposal Method:** Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



Advanced Chemical Technology LLC

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 3 OF 4

PRODUCT NAME: ACT R-269 Hydrochloric Acid 1:1

MSDS NUMBER: 12/16/2001R269

MSDS DATE: 12/16/2001

PRODUCT CODE: Test Reagent

KEY NUMBER: R-269

9. SPECIAL PROTECTION INFORMATION

See Addendum:

Ref. PAGE:

Respiratory Protection: Use acid gas/organic vapor respirator if ventilation is inadequate

Eye Protection: Chemical goggles and face shield

Skin Protection: Rubber gloves

Other Clothing: Rubber apron and protective clothes

Other Equipment: Eye wash station and full drench shower recommended

Engineering Controls: General mechanical ventilation recommended for enclosed areas

10. HANDLING AND STORAGE

See Addendum:

Ref. PAGE:

Special Precautions: Store in a cool protected location. Keep container closed when not in use. Keep away from children

Other Precautions: Clean up spills immediately. Triple rinse container before reuse or disposal

11. REGULATORY INFORMATION

See Addendum:

Ref. PAGE:

Workplace Classification: DOT Class 8, Pack Group II, Corrosive

12. TOXICOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Acute Data: ND

**Reproductive /
Teratology Data** ND

13. ECOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Fate in the Environment: ND

14. DISPOSAL CONDITIONS

See Addendum:

Ref. PAGE: 4

Procedures: Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.

15. TRANSPORTATION INFORMATION

See Addendum:

Ref. PAGE:

DOT Classification: DOT Class 8, Pack Group II, Corrosive

Warning Labels: Corrosive



Advanced Chemical Technology LLC

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 4 OF 4

PRODUCT NAME: ACT R-269 Hydrochloric Acid 1:1

MSDS NUMBER: 12/16/2001R269

MSDS DATE: 12/16/2001

PRODUCT CODE: Test Reagent

KEY NUMBER: R-269

ADDENDUM for Section - 14. DISPOSAL CONDITIONS - Ref. Pg. 3

Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product.

ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3

SARA/TITLE III - SECTION 304 EMERGENCY NOTIFICATION REPORTING

This product does not contain a Section 304 listed hazardous substance for emergency release notification

SARA/TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE REPORTING

This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA INVENTORY STATUS

All chemical components are listed on TSCA inventory

CALIFORNIA PROPOSITION 65 STATUS

This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

ADDENDUM for Section - Other Information

NA = Not Applicable
ND = Not Determined
NE = Not Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Chemical Technology, LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, Advanced Chemical Technology, LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.