

Solutia Inc.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: HYDROCHLORIC ACID

Reference Number: 000000000132

Date: 04/05/2005

Company Information:

United States:

Solutia Inc.
575 Maryville Center Drive, P.O. Box 66760
St. Louis, MO 63166-6760
Emergency telephone: Chemtrec: 1-800-424-9300
Non-Emergency telephone: 1-314-674-6661

Canada:

Solutia Canada Inc.
6800 St. Patrick Street
LaSalle, PQ H8N 2H3
Emergency telephone: CANUTEC: 1-613-996-6666
Non-Emergency telephone: 1-314-674-6661

Mexico:

Solutia MEXICO, S. DE R.L. DE C.V.
Paseo de la Reforma No. 2654 Piso 3-A
Col. Lomas Altas
C.P. 11950 Mexico D.F.
Emergency telephone: SETIQ: (in Mexico) 01-800-002-1400
Non-Emergency telephone: (in Mexico) 01-55-5259-6800

Brazil:

Solutia Brazil Ltd.
Avenue Carlos Marcondes, 1200
CEP: 12241-420-São José dos Campos/SP-Brazil
Emergency telephone: 55 12 3932 7100 (PABX)
Non-Emergency telephone: 55 11 3365 1800 (PABX)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Form: liquid
Colour: colourless to pale yellow
Odour: pungent

WARNING STATEMENTS

DANGER!
Harmful if swallowed
Harmful if inhaled
Causes severe eye burns
Causes severe skin burns
Causes severe respiratory tract burns

POTENTIAL HEALTH EFFECTS

Likely routes of exposure: eye and skin contact

Use extinguishing media suitable to the surrounding fire.

Unusual fire and explosion hazards: Attacks many metals with liberation of hydrogen which is flammable and forms explosive mixture with air.
Keep containers cool by spraying with water if exposed to fire.

Fire fighting equipment: Firefighters, and others exposed, wear self-contained breathing apparatus.
Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: In case of leak or spill, keep all non-essential personnel away from the area.
Keep upwind.
Shut off leaks if without risk.
Wear self-contained breathing apparatus.
Wear full protective clothing.
Use personal protection recommended in section 8.

Environmental precautions: Keep out of drains and water courses.

Methods for cleaning up: Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Flush spill area with water. Neutralize spill area with soda ash or lime.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

Handling

Do not get in eyes, on skin, or on clothing.
Do not taste or swallow.
Avoid breathing vapour or mist.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage

General: Stable under normal conditions of handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits: (ml/m³ = ppm)

hydrogen chloride ACGIH TLV: 2 ml/m³ ; ; ceiling
OSHA PEL: 5 ml/m³ ; 7 mg/m³ ; ; 8-hr TWA
Mexican OEL: 5 ml/m³ ; 7 mg/m³ ; ; 8-hr TWA

Eye protection: Wear chemical goggles.
Have eye wash facilities immediately available at any location where eye contact can

occur.

- Hand protection: Wear chemical resistant gloves.
Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.
- Body protection: Wear suitable protective clothing.
Wear full protective clothing if exposed to splashes.
Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.
Wash contaminated skin promptly.
Launder contaminated clothing and clean protective equipment before reuse.
Have safety shower available at locations where skin contact can occur.
Wash thoroughly after handling.
- Respiratory protection: Avoid breathing vapour or mist.
Use approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded.
If used, full facepiece replaces the need for face shield and/or chemical goggles.
Consult the respirator manufacturer to determine the appropriate type of equipment for a given application.
Observe respirator use limitations specified by the manufacturer.
The respirator use limitations specified by the manufacturer must be observed.
- Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits.
If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Flash point: Non combustible.
- Specific gravity: 1.160 @ 16 C
1.179 @ 16 C
- Boiling point : 62 C @ 1,013 hPa
83 C @ 1,013 hPa

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

- Conditions to avoid: None known
- Materials to avoid: Attacks many metals with liberation of hydrogen which is flammable and forms explosive mixture with air.
Contact with amines.
Contact with alkalis.

Hazardous reactions: Hazardous polymerization does not occur.

Hazardous decomposition products: None known;

11. TOXICOLOGICAL INFORMATION

This product has been tested for toxicity. Results from Solutia sponsored studies or from the available public literature are described below.

Acute animal toxicity data

Oral: LD50 , rat, 700 mg/kg , No more than slightly toxic.

Dermal: LD50 , rabbit, > 5,010 mg/kg , Practically nontoxic after skin application in animal studies.

Inhalation: LC50 , rat, 3,124 mg/l , 1 h, Toxic
LC50 , mouse, 1,108 mg/l , 1 h,

Eye irritation: rabbit , Corrosive,

Skin irritation: rabbit , Corrosive, 24 h

Mutagenicity: No genetic effects were observed in standard tests using bacterial cells and whole animals.

12. ECOLOGICAL INFORMATION

Solutia has not conducted environmental toxicity or biodegradation studies with this material.

13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This material when discarded is a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA),40 CFR 261. See disposal considerations below for U.S. EPA disposal requirements. Consult regulatory officials for performance standards.

US EPA RCRA hazardous waste number: D002 Compound/Characteristic: Corrosivity

Disposal considerations: Deactivation
Recovery
Consult 40 CFR 268.48 for concentration based standards.
CMBST - High temperature organic destruction technologies

Miscellaneous advice: Local, state, provincial, and national disposal regulations may be more or less stringent. Consult your attorney or appropriate regulatory officials for information on such disposal.
This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Proper shipping name: HYDROCHLORIC ACID, SOLUTION
Hazard Class: 8
Hazard Identification number: UN1789
Packing Group: Packing Group II
Transport label: Corrosive

Canadian TDG

Proper shipping name: HYDROCHLORIC ACID, SOLUTION
Hazard Class: 8, 9.2
Hazard Identification number: UN1789
Packing Group: Packing Group II
Transport label: Corrosive

Reportable Quantity/Limit

US DOT RQ 5,000 lb *hydrogen chloride*
Package size containing reportable amount: 14,205 lb

ICAO/IATA Class

Other: See DOT Information

15. REGULATORY INFORMATION

All components are in compliance with the following inventories: U.S. TSCA, Canadian DSL, EU EINECS, Japanese ENCS, Australian AICS, Korean, Phillipine PICCS, Malaysian, Taiwanese, Chinese

Canadian WHMIS classification: D2(B) - Materials Causing Other Toxic Effects
E - Corrosive Material

SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370): Immediate
Section 302 Extremely Hazardous Substances: hydrogen chloride
Section 313 Toxic Chemical(s): hydrogen chloride

CERCLA Reportable Quantity:

5000 lbs hydrogen chloride
For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24 hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

Safety data sheet also created in accordance with Brazilian law NBR 14725

16. OTHER INFORMATION

Product use: pH-regulating agents

Reason for revision: New ANSI Standard

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	3	0	1	
Suggested HMIS Rating:	3	0	1	H

Prepared by the Solutia Hazard Communication Group. Please consult Solutia @ 314-674-6661 if further information is needed.

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