Printing date 03/05/2008

Reviewed on 03/05/2008

1 Identification of substance

Product details

Trade name: Pieri Gel-Etch

MSDS ID Number: D-06354 (Replaces MSDS: D-05948) Manufacturer/Supplier: W.R. Grace & Co. -Conn. 62 Whittemore Avenue Cambridge, MA 02140 USA

Grace Canada, Inc. 294 Clements Road W. Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety USA: 1-617-876-1400 (24 hours) 1-800-354-5414 (8AM - 5PM) CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec 1-800-424-9300 (24 hours)

2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:				
7647-01-0	Hydrochloric acid	C; R 34-37	20-30%	
77-92-9	Citric acid	Xi; R 36	5.0-10.0%	

Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

Hazard description:

C Corrosive

Information pertaining to particular dangers for man and environment:

Review information in this MSDS and product label prior to use. Causes burns.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)



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Trade name: Pieri® Gel-Etch

HMIS-ratings (scale 0 - 4)

HEALTH 3	Health = 3^*
	Fire = 1
REACTIVITY 0	Reactivity $= 0$

4 First aid measures

General information: Immediately remove any clothing soiled by the product.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Seek immediate medical advice.

After swallowing:

Do not induce vomiting; immediately call for medical help. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container. Sweep up spilled product into receptacles.

Use neutralizing agent.

Dispose contaminated material as waste according to section 13 of the MSDS.

7 Handling and storage

Handling:

Information for safe handling: Risk of serious damage to eyes. Open and handle receptacle with care.

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Material Safety Data Sheet

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Trade name: Pieri® Gel-Etch

Information about protection against explosions and fires:

Empty containers may retain hazardous residue, both liquid and vapor. Do not cut, drill, grind or weld on or near container, whether empty or full.

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: None.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

7647-01-0 Hydrochloric acid

PEL Short-term value: C 7 mg/m³, C 5 ppm

REL Short-term value: C 7 mg/m³, C 5 ppm

TLV Short-term value: C 7.5 mg/m³, C 5 ppm

NIC-C 2; C 2.98; NIC-A4

Additional information: The lists that were valid during the creation were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Breathing equipment:

Respiratory protection is not normally required. If vapor or mist is created during use, an Acid Gas respirator should be considered.

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use. Synthetic gloves

Eve protection:



Tightly sealed goggles

Face protection

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn. Body protection: Protective work clothing

9 Physical and chemical properties

General Information

Form:

Fluid

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Color: Odor:	According to product specification Characteristic
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 85°C (185°F)
Flash point:	> 100°C (> 212°F)
Ignition temperature:	1010.0°C (1850°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure at 20°C (68°F): 20.0 hPa (15 mm Hg)
Density:	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.

10 Stability and reactivity

Thermal decomposition: No decomposition if used according to specifications.

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

77-92-9 Citric acid

Oral LD50 6730 mg/kg (rat)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Must not reach bodies of water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

Product:

Comply with Federal, State, and local regulations Waste product is defined as hazardous by US EPA due to corrosivity (D002).

Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

DOT regulations:		
CORROSIVE		
Hazard class:	8	
Identification number:	UN1789	
Packing group:	III	
	l name): Hydrochloric acid, mixture	
Label	8	
Land transport ADR/RID		
Land transport ADR/RID	(cross-border):	
Land transport ADR/RID	(cross-border):	
Land transport ADR/RID	(cross-border): 8 Corrosive substances	
Land transport ADR/RID	(cross-border): 8 Corrosive substances 5c	

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Maritime transport IMDG	:	
IMDG Class:	8	
Page:	8183	
UN Number: Label	1789 8	
Packaging group:	III	
EMS Number:	F-A,S-B	
MFAG:	700	
Marine pollutant:	No	
Proper shipping name:	Hydrochloric acid, mixture	
Air transport ICAO-TI an	d IATA-DGR:	
ICAO/IATA Class:	8	
UN/ID Number: Label	1789 8	
Packaging group:	III	
Proper shipping name:	Hydrochloric acid, mixture	

15 Regulations

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

7647-01-0 Hydrochloric acid

Section 313 (specific toxic chemical listings):

7647-01-0 Hydrochloric acid

TSCA (Toxic Substances Control Act):

All ingredients are listed.

WHMIS Classification(s):



CEPA (Canadian DSL):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Trade name: Pieri® Gel-Etch

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

7647-01-0 Hydrochloric acid 3

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Product related hazard informations:

Hazard symbols:



C Corrosive

Risk phrases: Causes burns.

Safety phrases:

Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. If swallowed, seek medical advice immediately and show this container or label. Dispose of this material and its container at hazardous or special waste collection point This material and its container must be disposed of as hazardous waste. If swallowed, rinse mouth with water (only if the person is conscious)

16 Other information

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

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USA

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