# SAFETY DATA SHEET



Issue Date: 01-Feb-2011 Revision Date: 11-Mar-2015 Version 1

## 1. IDENTIFICATION

**Product Identifier** 

Product Name ACE SCALE REMOVER

Other means of identification

SDS # SR

UN/ID No UN1789

**Other Information** Package type: 1, 5, 55 gal.

Recommended use of the chemical and restrictions on use

**Recommended Use** Food grade all-purpose scale dissolver.

**Restrictions on Use** For professional use only. Product is a concentrate and should be diluted prior to use.

#### Details of the supplier of the safety data sheet

**Manufacturer Address** 

Atlantic Chemical & Equipment Company

3471 Atlanta Industrial Parkway

Suite 200

Atlanta, GA 30331 USA

Emergency telephone number

Company Phone Number 404-505-6626 1-800-929-2436

Emergency Telephone Chemtrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

## Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

## Signal Word

Danger

## **Hazard Statements**

Causes severe skin burns and eye damage

May cause respiratory irritation. May cause drowsiness or dizziness



AppearanceBrown liquidPhysical StateLiquidOdor Pungent

#### <u>Precautionary Statements - Prevention</u>

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

## Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

## Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store away from incompatible materials

#### <u>Precautionary Statements - Disposal</u>

Dispose of in accordance with federal, state and local regulations

## **Hazards not otherwise classified (HNOC)**

May be harmful if swallowed

#### **Other Information**

Not Applicable

## 3. COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrochloric acid	7647-01-0	<85

#### 4. FIRST AID MEASURES

## First aid measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out

of dangerous area.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Ingestion** Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to

reduce risk of aspiration. Rinse mouth thoroughly with water. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention immediately.

#### Most important symptoms and effects, both acute and delayed

Symptoms May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Irritation and

corrosive burns to mouth, throat, and stomach. May cause irritation to the mucous

membranes and upper respiratory tract. Severe burns to exposed skin.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined

#### Specific hazards arising from the chemical

Reacts with oxidizers, chlorinating agents, and most metals. Contact with metals may evolve flammable hydrogen gas.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions** See Section 12 for additional ecological information.

## Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Scoop material into suitable container for disposal. For waste

disposal, see section 13 of the SDS.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-

ventilated area. Use personal protection recommended in Section 8.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store away from incompatible materials. Keep container tightly closed

in a dry and well-ventilated place.

Incompatible materials Chlorinating agents. Alkali. Alkaline materials. Oxidizers. Metals.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³ Ceiling: 5 ppm Ceiling: 7 mg/m³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the

exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment

Eye/face Protection Use tight fitting, splash proof safety goggles. Contact lenses should not be worn when

handling this material. Face Mask.

**Skin and Body Protection** Wear suitable protective clothing and footwear appropriate for the risk of exposure.

Wear protective Neoprene™ gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical stateLiquidAppearanceBrown liquidOdorPungentColorBrownOdor thresholdNot determined

Property Values Remarks • Method

**pH** 1.0

Melting point/freezing point Not determined Flash point Not determined **Evaporation rate** Not determined Flammability (solid, gas) Not determined Flammability Limits in Air Not determined **Upper flammability limits** Not determined Lower flammability limits Not determined Vapor pressure Not determined Vapor density Not determined

**Specific gravity** 1.1525 @ 68°F (20°C)

Water solubility Not determined Solubility in other solvents Not determined Partition in other solvents Not determined **Partition coefficient** Not determined **Autoignition temperature** Not determined Kinematic viscosity Not determined Dynamic viscosity Not determined **Explosive properties** Not determined **Oxidizing properties** Not determined

## **Other Information**

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Contact with incompatible materials.

## **Incompatible materials**

Chlorinating agents. Alkali. Alkaline materials. Oxidizers. Metals.

#### **Hazardous Decomposition Products**

Hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Ingestion** May be harmful if swallowed

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	= 700 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 3124 ppm ( Rat ) 1 h

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by

OSHA, IARC or NTP.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid 7647-01-0		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

#### Numerical measures of toxicity - Product

Not determined

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0		282: 96 h Gambusia affinis mg/L LC50 static		

## Persistence and degradability

Not determined

#### **Bioaccumulation**

Not determined

#### **Mobility**

Not determined

Other adverse effects Not determined

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws

and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

#### 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and

special circumstances

DOT

UN1789

Proper shipping name Hydrochloric acid solution

Hazard Class 8
Packing Group II
Reportable Quantity (RQ) 5000 lbs

**IATA** 

UN/ID No UN1789

Proper shipping name Hydrochloric acid solution

Hazard Class 8
Packing Group II

<u>IMDG</u>

UN/ID No UN1789

Proper shipping name Hydrochloric acid solution

Hazard Class 8
Packing Group II

#### 15. REGULATORY INFORMATION

## **International Inventories**

Not determined

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **U.S. Federal Regulations**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric acid - 7647-01-0	7647-01-0	<85	1.0

#### SARA 311/312 Hazard Categories

Chemical Name	CWA - Reportable Quantities	CWA - Toxi	c Pollutants	CWA - Priority Po	llutants	CWA - Hazardous Substances
Hydrochloric acid	5000 lb					X
7647-01-0						
Chemical Name	Hazardous Subst	ances RQs	CERC	LA/SARA RQ	Re	portable Quantity (RQ)
Hydrochloric acid 7647-01-0	5000 lb	)		5000 lb	RQ 50	000 lb final RQ RQ 2270 kg final RQ

#### **U.S. State Regulations**

U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania		
Hydrochloric acid	X	X	X		
7647-01-0					

#### **U.S. EPA Label Information**

#### 16. OTHER INFORMATION

<u>NFPA</u>	Health hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health hazards	Flammability	Physical hazards	Personal protection
	3	0	1	X

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#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**