



## SAFETY DATA SHEET TOPLINE PROBE CLEANER (6% HYDROCHLORIC ACID)

Creation Date 22<sup>nd</sup> May 2015 Revision Number 1

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product Identifier Product Description:** TOPLINE PROBE CLEANER HYDROCHLORIC ACID 5%  
**Cat No.** 124620000; 124620010; 124620011; 124620025; 124620026; 124620051; 124620100; 124620250  
Synonyms Muriatic acid  
Molecular Formula HCl.H<sub>2</sub>O  
Reach Registration Number 01-2119484862-27

**1.2 Relevant identified uses of the substance or mixture and uses advised against Recommended Use**  
**Swimming Pool Uses advised against No Information available**

**1.3. Details of the supplier of the safety data sheet**

Topline Electronics Ltd  
A8 Ropemaker Park  
Hailsham East Sussex  
BN27 3GU  
E-mail address sales@topline.uk.net

**1.4. Emergency telephone number**

00 44 1323 440760

### SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture**

**CLP Classification - Regulation (EC) No 1272/2008**

**Physical hazards**

Substances/mixtures corrosive to metal Category 1

**Health hazards Skin Corrosion/irritation Category 1 B**

Serious Eye Damage/Eye Irritation Category 1  
Specific target organ toxicity - (single exposure) Category 3

**Environmental hazards**

Based on available data, the classification criteria are not met

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

<b>Symbol(s)</b>	C – Corrosive
<b>R-phrases(s)</b>	R34 - Causes burns R37 – Irritating to respiratory system

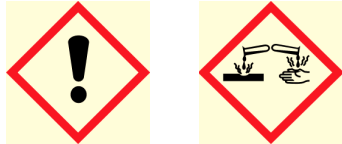


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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements



### Signal Word Danger

#### Hazard Statements

H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

#### Precautionary Statements

P234 - Keep only in original container  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/ physician

### 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Component	CAS-No	EC-No.	Weight %	CLP Classification Regulation (EC) No 1272/2008	DSD Classification 67/548/EEC
Hydrochloric acid	7647-01-0	231-595-7	35-38	Skin Corr. 1B (H314) Eye Dam. 1 (H318) STOT SE 3 (H335) Met. Corr. 1 (H290)	C; R34 Xi; R37
Water	7732-18-5	231-791-2	62-65		

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### SECTION 4: FIRST AID MEASURES

#### **4.1. Description of first aid measures**

**General Advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

**Protection of First-aiders** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

**4.2. Most important symptoms and effects, both acute and delayed** Causes burns by all exposure routes: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### **5.1. Extinguishing media**

Suitable Extinguishing Media Substance is non-flammable; use agent most appropriate to extinguish surrounding fire.

**Extinguishing media which must not be used for safety reasons** No information available.

**5.2. Special hazards arising from the substance or mixture** Corrosive Material. Causes burns by all exposure routes. Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products Hydrogen chloride gas.

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

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing.

#### **6.2. Environmental precautions**

Should not be released into the environment. See Section 12 for additional ecological information.

#### **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.



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**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

**7.3. Specific end use(s)**

Use in swimming pools

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Exposure limits**

List source(s): EU - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. UK - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. IRE - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	United Kingdom
Hydrochloric acid	TWA: 5 ppm 8 hr	TWA: 8 mg/m <sup>3</sup> 8 hr
	TWA: 8 mg/m <sup>3</sup> 8 hr	STEL: 10 ppm 15 min
	STEL: 10 ppm 15 min	TWA: 1 ppm 8 hr
	STEL: 15 mg/m <sup>3</sup> 15 min	TWA: 2 mg/m <sup>3</sup> 8 hr

**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours.

**Derived No Effect Level (DNEL)** See table for vapours

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation	15 mg/m <sup>3</sup>		8 mg/m <sup>3</sup>	

**Predicted No Effect Concentration (PNEC)** See values below.

Fresh water	36 µg/l
Marine water	36 µg/l
Water Intermittent	45 µg/l
Microorganisms in sewage treatment	36 µg



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### 8.2. Exposure controls

#### Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	> 480 minutes	0.5 mm	EN374	As tested under
Nitrile rubber	> 480 minutes	0.35 mm		EN374-3 Determination
Neoprene gloves	> 480 minutes	0.5 mm		of resistance to
Viton (R)	> 480 minutes	0.4 mm		permeation of chemicals
PVC	> 480 minutes	0.5 mm		

**Skin and body protection** Long sleeved clothing. Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

(Refer to manufacturer/supplier for information). Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** Particulates filter conforming to EN 143

**Small scale/Laboratory use** Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Recommended half mask:-** Particle filtering: EN149:2001. When RPE is used a face piece Fit Test should be conducted.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available



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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance	Colourless
Physical State	Liquid
Odor	pungent
Odor	Threshold No data available
Melting Point/Range	-35 °C / -31 °F
Softening Point	No data available
Boiling Point/Range	57 °C / 135 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No data available
Flammability (solid,gas)	Not applicable Liquid
Explosion Limits	No data available
Vapor Pressure	125 mbar @ 20 °C
Vapor Density	1.27 (Air = 1.0) (Air = 1.0)
Specific Gravity / Density	1.18
Bulk Density	Not applicable Liquid
Water Solubility	Miscible
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Autoignition Temperature	No data available
Decomposition temperature	No data available
Viscosity ACR12462	1.8 m Pa.s @ 15°C
Explosive Properties	No information available
Oxidizing Properties	No information available

**9.2. Other information**

Molecular Formula	HCl.H <sub>2</sub> O
Molecular Weight	36.46

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

Yes, contact with chlorine liberates toxic gas

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions**

Contact with chlorine liberates toxic gas.

Contact with metals may evolve flammable hydrogen gas.

**10.4. Conditions to avoid**

Incompatible products. Combustible material, Exposure to moist air or water, Temperatures above 50°C.

**10.5. Incompatible materials**

Organic materials, Acids, Amines, Ammonia, Alcohols, Reducing agents, Metals.

**10.6. Hazardous decomposition products**

Hydrogen chloride gas. Chlorine. oxygen.



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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects product Information**

**Product Information**

- (a) **acute toxicity;**  
 Oral Based on available data, the classification criteria are not met  
 Dermal Based on available data, the classification criteria are not met  
 Inhalation Based on available data, the classification criteria are not met

**Toxicology Data for the Components**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
HYDROCHLORIC ACID	700 mg/kg (Rat )	5010 mg/kg ( Rabbit )	3124ppm (Rat) 1h

- (b) **skin corrosion/irritation;** Category 1 B  
 (c) **serious eye damage/irritation;** Category 1  
 (d) **respiratory or skin sensitization;** Respiratory No data available Skin No data available  
 (e) **germ cell mutagenicity;** No data available Mutagenic effects have occurred in experimental animals  
 (f) **carcinogenicity;** No data available The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	EU	UK	IARC
HYDROCHLORIC ACID			Group 3

- (g) **reproductive toxicity;** No data available  
**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.  
**Developmental Effects** Developmental effects have occurred in experimental animals.  
**Teratogenicity** Teratogenic effects have occurred in experimental animals.  
 (h) **STOT-single exposure;** Category 3  
 (i) **STOT-repeated exposure;** No data available Target Organs Skin, Respiratory system, Eyes, Gastrointestinal tract (GI), Liver, Kidney, Teeth.  
 (j) **aspiration hazard;** No data available  
**Other Adverse Effects** See actual entry in RTECS for complete information  
**Symptoms / effects, both acute and delayed** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation



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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Eco toxicity effects** Do not empty into drains.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
HYDROCHLORIC ACID	282mg/l LC50 96h			

**12.2. Persistence and degradability**

Persistence is unlikely, based on information available

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely

**12.4. Mobility in soil**

Water Soluble. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**12.5. Results of PBT & vPvB assessment**

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

**12.6. Other adverse effects**

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Waste from Residues / Unused**

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging**

Dispose of this container to hazardous or special waste collection point.

**European Waste Catalogue (EWC)**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not dispose of waste into sewer. Large amounts will affect pH and harm aquatic organisms. Solutions with low pH-value must be neutralized before discharge.





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### SECTION 14: TRANSPORT INFORMATION

#### IMDG/IMO

14.1. UN number	UN1789
14.2. UN proper shipping name	Hydrochloric acid
14.3. Transport hazard class(es)	8
14.4. Packing group	II

#### ADR

14.1. UN number	UN1789
14.2. UN proper shipping name	Hydrochloric acid
14.3. Transport hazard class(es)	8
14.4. Packing group	II

#### IATA

14.1. UN number	UN1789
14.2. UN proper shipping name	Hydrochloric acid
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable, packaged goods

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
HYDROCHLORIC ACID	231-595-7			x	x		x	x	x	x	x
WATER	231-791-2			x	x		x		x	x	x

Component	Seveso III Directive (2012/18/EC) – Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
	25 tonne	250 tonne

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment. Take note of Dir 94/33/EC on the protection of young people at work Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has been conducted by the manufacturer/importer

ECL - Existing and Evaluated Chemical Substances



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### SECTION 16: OTHER INFORMATION

#### Full text of R-phrases referred to under sections 2 and 3

R34 - Causes burns  
R37 - Irritating to respiratory system

#### Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

#### Legend

<b>CAS</b> - Chemical Abstracts Service	<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory
<b>EINECS/ELINCS</b> - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances	<b>DSL/NDL</b> - Canadian Domestic Substances List /Non-Domestic Substances List
<b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances	<b>ENCS</b> - Japanese Existing and New Chemical Substances
<b>IECSC</b> - Chinese Inventory of Existing Chemical Substances	<b>AICS</b> - Australian Inventory of Chemical Substances
<b>KECL</b> - Korean Existing and Evaluated Chemical Substances	<b>NZIoC</b> - New Zealand Inventory of Chemicals
<b>WEL</b> - Workplace Exposure Limit	<b>TWA</b> - Time Weighted Average
<b>ACGIH</b> - American Conference of Governmental Industrial Hygienists	<b>IARC</b> - International Agency for Research on Cancer
<b>DNEL</b> - Derived No Effect Level	<b>PNEC</b> - Predicted No Effect Concentration
<b>RPE</b> - Respiratory Protective Equipment	<b>LD50</b> - Lethal Dose 50%
<b>LC50</b> - Lethal Concentration 50%	<b>EC50</b> - Effective Concentration 50%
<b>NOEC</b> - No Observed Effect Concentration	<b>POW</b> - Partition coefficient Octanol:Water
<b>PBT</b> - Persistent, Bioaccumulative, Toxic	<b>vPvB</b> - very Persistent, very Bioaccumulative
<b>ADR</b> - European Agreement Concerning the International Carriage of Dangerous Goods by Road	<b>ICAO/IATA</b> - International Civil Aviation Organization /International Air Transport Association
<b>IMO/IMDG</b> - International Maritime Organization/International Maritime	<b>MARPOL</b> - International Convention for the Prevention of Pollution from Ships Dangerous Goods Code
<b>Oecd</b> - Organisation for Economic Co-operation and Development	<b>ATE</b> - Acute Toxicity Estimate
<b>BCF</b> - Bioconcentration factor	<b>VOC</b> - Volatile Organic Compounds

#### **Key literature references and sources for data**

Suppliers safety data sheet,  
Chemadvisor - LOLI,  
Merck index,  
RTECS

#### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers. Chemical incident response training.



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**Revision Date**

**Revision Summary.**

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### **Disclaimer**

**The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text. Page 10 / 10**

**End of Safety Data Sheet**