



PRODUCT INFORMATION SHEET

CON CLEAN

CONCRETE & BRICK CLEANER

PRODUCT INFORMATION:

Strong liquid acid for use in a wide range of applications including concrete etching. Cleans stained concrete & brick work, removes cement from equipment, rust, corrosion & the build-up of lime-scale from closed systems.

ADVANTAGES:

MULTI-USE:

Simply by changing the dilution, Con-Clean can be used for a wide variety of construction and industrial applications.

- Etches concrete prior to painting.
- Cleans rust and algae stains from concrete & brickwork.
- Removes cement build-up from construction equipment.
- Cleans rust and corrosion from metal structures and parts in process.
- Removes hard water build-up, lime scale and corrosion from closed systems.
- Con Clean cleans out copper, brass and steel piping, water meters, etc.

BIODEGRADABLE &:

Fully biodegradable & 100% soluble in water.

WATER SOLUBLE:

DIRECTIONS FOR USE:

Highly concentrated product which can be diluted up to 1:50 depending on the degree of soiling. For steam boiler tubes use 1:4 parts water. For concrete cleaning etc. brush product onto the surface & allow time to penetrate. Rinse well with copious amounts of water. Do not mix with other cleaners particularly bleach. Do not use on chrome, brass or stainless steel.

HEALTH AND SAFETY:

See Safety Data Sheet.

PACKAGING:

All our plastic drums are high molecular weight; high-density polyethylene designed to bring the product to the customer in perfect conditions.

Size: 5Lt Drums, 20Lt Drums

QUALITY ASSURANCE:

This product is manufactured in Ireland to ISO 9002 quality standards & conforms to R.E.A.C.H & CLP regulations. Shelf life: Not less than 3 years.

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PRODUCT NAME: CON CLEAN

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

1.1. Product identifier

Product Name CON CLEAN
Product No. OIR 607

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Acid Based Cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier Total Cleaning Supplies
Limerick: 061 436 402 | Cork: 021 435 5262
sales@totalcleaningsupplies.ie
www.totalcleaningsupplies.ie

1.4. Emergency Contact: National Poisons Information Centre, Beaumont Hospital,
Beaumont Road, Dublin 9. Tel: +353(01)8092566

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification: Regulation (EC) No 1272/2008 H314, H335
Human health: Causes severe skin burns & eye damage. May cause respiratory irritation
Environment: This product is Readily Biodegradable and not expected to be hazardous to the environment..

2.2. Label elements

Detergent Labelling: Contains: Hydrochloric Acid, Non-ionic surfactants.



DANGER



WARNING

Hazard Phrases	H314 Causes severe skin burns & eye damage H335 May cause respiratory irritation
Precautionary Statements	P261 Avoid breathing mist/vapours/spray P262 Do not get in eyes, on skin or on clothing P264 Wash hands thoroughly after handling P271 Use only outdoors or in a well-ventilated area P280 Wear protective gloves, clothing, eye & face protection P302 IF ON SKIN: Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists P304 IF INHALED: Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues. P305 IF IN EYES: Flush eyes with water, remove contact lenses if present & continue rinsing. Immediately call a poison centre or doctor/physician P312 Call a poison centre or doctor/physician if you feel unwell P403+ P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards N/A

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

HYDROCHLORIC ACID 36%	50-70%
CAS-No.: 7647-01-0	EC No.: 231-595-7
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	
ALCOHOL ETHOXYLATE	1-5%
CAS-No.: 160901-19-9	EC No.: 931-954-4
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	

A Full Text for all Hazard Statements are Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.
Skin Contact:	Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists.
Eye Contact:	Flush eyes with water immediately. Obtain medical attention if irritation persists.
Ingestion:	Rinse out mouth immediately with water. Consult a doctor if irritation persists.
Protection of first aider:	Avoid inhalation, ingestion, contact with skin and eyes (see Section 8.)

4.2. Most important symptoms and effects, both acute and delayed

Inhalation:	Spray mists may cause coughing, chest tightness, feeling of chest pressure.
Ingestion:	May cause discomfort if swallowed. May cause internal injury
Skin contact:	May cause serious chemical burns to the skin.
Eye contact:	Causes severe burns. Risk of serious damage to eyes

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure, first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
5.2 Unsuitable:	N/A
5.3 Specific Hazards:	Vaporises on heating to liberate highly irritating mists of hydrochloric acid. May decompose in a fire to generate irritating fumes. Attacks most metals, liberating flammable hydrogen gas, which may form an explosive mixture with air.
5.4 Special Equipment for the protection of Fire Fighters:	May generate toxic and explosive fumes in a fire, therefore fire fighters should wear self-contained breathing apparatus and full body protective clothing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: Avoid inhalation of spray mist & contact with skin and eyes. Provide adequate ventilation (see Section 8.)
- 6.2 Environmental Precautions: If size of spillage warrants and has contaminated water courses, drains or vegetation - advise appropriate authorities.
- 6.3 Methods for Cleaning up: Small Spills - Flush with water.
Large Spills - Contain & collect spillage & absorb on to sand

SECTION 7: HANDLING AND STORAGE

7.1 Handling

- Technical Measures: Eye wash facilities & emergency shower must be available when handling this product.
- Safe Handling Advice: Avoid inhalation of spray mist & contact with eyes and skin. Comply with instructions for use.

7.2 Storage

- Technical Measures: No special measures required.
- Storage Conditions: Store in a cool dry place.
- Incompatible Products: Alkalis, Strong Oxidizing Agents. Mild steel, cast iron, aluminium, aluminium alloys, brasses, tinned & galvanized materials are all attacked
- Packaging: Plastic Drums.
- Packaging Materials: Recommended: Plastic Materials, Polyethylene, Polypropylene. Not Suitable - Uncoated Metal Drums.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Engineering Measures: No special measures required.
- 8.2 Personal Protection Equipment:



- Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, where applicable an air-purifying respirator type ABEK (EN 14387) respirator cartridges must be worn.
- Hand Protection: Use Chemical Resistant Gloves to EN Standard 374 Level 1, Letter Code K
- Eye Protection: Use Chemical Goggles or Face Shield to EN Standard 166 Level 3 or higher
- Skin Protection: Wear Plastic Apron EN Standard 13034 Type PB[6] & Face Shield EN Standard 166 Level 3 or higher
- 8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.
- 8.4 Occupational Exposure Limits:

Name	STD	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15 minute reference period)		Notes
		ppm	mg/m3	ppm	mg/m3	
Hydrochloric Acid	OELV	5	8	10	15	IOELV

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	Appearance:	Form: Liquid. Colour: Yellow
b)	Odour:	Pungent
c)	Odour threshold:	N/A
d)	pH:	1+/-0.5
e)	Melting point / freezing point:	No data available
f)	Initial boiling point & boiling range:	No data available
g)	Flash point:	No data available
h)	Evaporation rate:	No data available
i)	Flammability solid, gas):	No data available
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available
l)	Vapour density:	No data available
m)	Relative density:	1.12kg/dm ³
n)	Solubility(ies):	Soluble in Water
o)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available
q)	Decomposition temperature:	No data available
r)	Viscosity:	No data available
s)	Explosive properties:	No data available
t)	Oxidising properties:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

There are no known reactivity hazards associated with this product.

10.2. Chemical stability:

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions:

Contact with concentrated Sulphuric acid will liberate irritating fumes of Hydrogen Chloride Gas. Contact with conc. Nitric Acid liberates toxic fumes of Nitrosyl Chloride. Can liberate harmful gases from certain chemicals & Salts e.g. Cyanides, Nitrites, sulphites, Acetylides and Carbides. Reacts with oxidising agents to liberate toxic Chlorine Gas. Reactions with concentrated Alkalis generate much heat. Liberates Carbon Dioxide from carbonates and bicarbonates
Corrosive to most metals

10.4. Conditions to avoid:

Avoid Extreme Temperatures. Avoid contact with alkalis &/or oxidising agents.

10.5. Incompatible materials:

Alkalis &/or oxidizing agents, most metals.

10.6. Hazardous decomposition products:

Hydrogen chloride (HCl).

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Inhalation:	Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion:	Causes burns. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact:	Corrosive & Irritating to skin. Will burn skin on contact
Eye contact:	Risk of serious damage to eyes. Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight

HYDROCHLORIC ACID 36% (CAS-No.: 7647-01-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

No LD50 available. Will immediately cause corrosion of & damage to the gastrointestinal tract

Acute Toxicity (Dermal LD50)

No LD50 available. Will immediately cause corrosion of & damage to the skin

Acute Toxicity (Inhalation LC50)

No LC50 4 hour available

LC50 Rat (5 min exposure to aerosol of aqueous solution) 45.6mg/l

LC50 Rat (30 min exposure to aerosol of aqueous solution) 8.3mg/l

REACH dossier information

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

> 1.6 mg/l (dust/mist) Rat 4 hours

REACH dossier information

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity

The product components are not classified as environmentally hazardous. However, this product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Large or frequent spills can have a harmful or damaging effect on the environment

12.1. Toxicity

Ecological information on ingredients:

HYDROCHLORIC ACID (CAS: 7647-01-0)

Acute Toxicity - Fish

LC50 96 hours 20.5 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.45 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.73 mg/l

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ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Acute Toxicity - Fish

LC50 96 hours 0.59 mg/l *Pleuronectes platessa*

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.14 mg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.75 mg/l *Selenastrum capricornutum*

REACH dossier information

12.2. Persistence and degradability

Degradability: The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ecological information on ingredients.

HYDROCHLORIC ACID (CAS: 7647-01-0)

Degradability.

This product is expected to be easily biodegradable.

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Biodegradation. Activated sludge Degradation (72%) 28 days

REACH dossier information

The substance is readily biodegradable.

12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients

HYDROCHLORIC ACID (CAS: 7647-01-0)

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Bioaccumulation factor

BCF 12.7 *Pimephales promelas* (Fat-head Minnow)

REACH dossier information

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority

13.1. Waste treatment methods

Dispose of waste in accordance with local regulations. Recover, reclaim or recycle, where possible.

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SECTION 14: TRANSPORT INFORMATION

REGULATIONS	CLASS
RID/ADR:	8 / 5 b
ICAO/IATA-DGR:	8 UN 1789 PAX 809 CAO 813
GGVSee/IMDG-Code:	8 / 5b

14.1. UN number

1789

14.2. UN proper shipping name

Hydrochloric Acid

14.3. Transport hazard class(es)

Class 8: Corrosive substances

14.4. Packing Group

II

14.5. Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant: N/A

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2R
Hazard No. (ADR)	80
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

Corresponding to Preparations Regulations S.I. No. 62 of 2004

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

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Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

REACH and Detergents Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

Revision Comments

Re-issued according to Regulation (EU) No 453/2010.

Revision Date: 01.01.17

Revision No: 4

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Hazard Statements In Full

H314 Causes severe skin burns & eye damage

H335 May cause respiratory irritation

H302 Harmful if swallowed

H318 Causes serious eye damage

H400 Very toxic to aquatic life

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.