

STAINLESS STEEL CLEANER

1. IDENTIFICATION OF SUBSTANCE/MIXTURE and COMPANY

1.1 Product identifier

Trade name: STAINLESS STEEL CLEANER

1.2 Identified pertinent uses of the substance/mixture and uses advised against
Liquid universal cleaner/descaler for steel, copper, brass and plastic surfaces

1.3 Information on the supplier of the safety data sheet

Supplier

HARKEN ITALY S.p.A.

22070 Limido Comasco (COMO) Via Marco Biagi, 14

Person responsible for the safety data sheet:

info@harken.it

1.4 Emergency phone number:

031-3523511

2. IDENTIFICATION OF DANGERS

2.1 Classification of substance or mixture

Criteria of Directives 67/548/CE, 99/45/CE updated at the XXXI CE adjustment:

Properties / Symbols::

C Corrosive

Xn Harmful

R phrases:

R34 Causes burns

R22 Harmful when ingested

Harmful physical-chemical effects on human health and the environment:

No other risk

2.2 Label elements



C



Xn

Symbols:

C Corrosive

Xn Harmful

R phrases:

R22 Harmful when ingested

R34 Causes burns.

S phrases:

S2: Keep out of reach of children

S26: In cases of contact with the eyes, wash immediately with abundant water and consult a doctor.

S 27 Immediately take off any contaminated clothing.

S36/37/39 Use protective clothing and gloves and protect eyes and face.

S 46 In cases of ingestion, consult a doctor immediately and show him/her the container or label.

SAFETY DATA SHEET

pursuant to Regulation 1907/2006 art.31 and Regulation 453/2010 Annex 1

Revision 1, 19 June 2012

STAINLESS STEEL CLEANERDON'T USE THE PRODUCT WITH OTHER PRODUCTS OR OXIDIZING AGENTS
ON ZINC COATED SURFACES. TRY BEFOREHAND ON A PART NOT VERY VISIBLE.Contains:
PHOSPHORIC ACID
AMMONIUM HYDROGENFLUORIDE

2.3 Other dangers

Results of PBT and vPvB tests

PBT: not applicable

vPvb: not applicable

Other risks:

No other risk
















3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

Elements of the CLP/GHS label pursuant to Regulation 1272/2008/CE and Regulation 790/2009/CE (1° ATP CLP)
Hazardous components pursuant to Directive CEE 67/548 and Regulation on classification, labelling and packaging
of substances and formulations, and relative classification:

- Hazardous substances		
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 051-011-00-6 Reg. Reach: 01-2119485924-24	Phosphoric acid al 75%  C R34  Skin Corr. 1B, H314	Over 30%
CAS: 1341-49-7 EINECS: 215-676-4 Index number: 009-009-00-4	Ammonium hydrogenfluoride  T R35;  C R34  Acute Tox. 3, H301;  Skin Corr. 1B, H314	5-10%
CAS: 151-21-3 EINECS: 205-788-1	Sodium dodecyl sulphate  Xn R21/22;  Xi R36/38  Acute Tox 4, H302; Acute Tox 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 5131-66-8 EINECS: 225-878-4 Index number: 603-052-00-8	3-butoxy-2-propanol  Xi R36/38  Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 6419-19-8 EINECS: 229-146-5	Nitilotrimethylenetris (phosphonic acid)  C R34  Skin Corr. 1B, H314	1-5%
CAS: 9002-93-1	Octyl phenol ethoxylate 4.5 O.E.  Xn R21/22;  Acute Tox 4, H302; Acute Tox 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%

3.2 Composition (Regulation CE 648/2004)

STAINLESS STEEL CLEANER

Non ionic surfactants, anionic phosphonates: 1-5%
Surfactant biodegradability: 90% (art. 2 - 4 Law 136/83)

4. FIRST AID

4.1 Description of first aid measures

In cases of contact with skin:

Immediately take off any contaminated clothing.

Immediately wash with abundant running water and if possible soap the parts of the body that the product has come into contact with.

IMMEDIATELY CONSULT A DOCTOR.

Wash all of the body (shower or bath).

Immediately take off any contaminated clothing and eliminate safely.

In cases of contact with the eyes:

In cases of contact with the eyes, rinse them with water for an adequate space of time and keep the eyelids open; then immediately consult an ophthalmologist.

Protect the unharmed eye.

In cases of ingestion:

Don't induce vomiting.

In cases of inhalation:

If the subject has fainted, keep him/her in a stable position on one side in open air during transport

4.2 Main symptoms and effects, both acute and delayed

None.

4.3 Indication of eventual need to immediately consult a doctor and have special treatment.

In cases of accidents or malaise, immediately consult a doctor (if possible, show him/her the instructions for use or the safety sheet).

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing equipment

Suitable extinguishing means:

Water.

Carbon dioxide (CO₂), foam.

Extinguishing means that must not be used for reasons of safety:

None in particular.

5.2 Special hazards arising from the substance or mixture

Don't inhale gas produced by combustion.

Combustion produces dense smoke.

5.3 Recommendations for fire-fighting personnel

Use adequate respiratory equipment.

Collect contaminated water from fire extinguishing operations separately. Don't discharge to the sewer network.

If feasible in terms of safety, moved any non-damaged containers from the area of immediate danger.

6. MEASURES IN EVENT OF ACCIDENTAL SPILLAGE

6.1 Precautions, personal protection devices and emergency procedures

Wear personal protection devices.

Move people to a safe place.

Refer to the protective measures under sections 7 and 8.

6.2 Environmental precautions

Prevent penetration of soil/subsoil. Prevent discharge into surface water or sewage network.

Segregate contaminated washing water and eliminate it.

STAINLESS STEEL CLEANER

In cases of escape of gas or penetration of water courses, soil or sewer network, inform the relevant authorities.

Material suitable for collection: absorbent, organic material, sand

6.3 Methods and materials for containment and reclamation

Wash with abundant water.

6.4 References to other sections

See sections 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mist.

Don't use empty containers before they've been cleaned.

Before transfer operations, make sure there are no residual incompatible materials in the containers.

Contaminated clothing must be replaced before entering lunch areas.

Don't eat or drink during work.

See section 8 for the recommended protection devices.

7.2 Conditions for safe storage, including possible incompatibilities

Keep away from food, drinks and animal feeds.

Indication for premises:

Premises must be adequately ventilated.

7.3 Specific end use(s)

None in particular

8. CONTROL OF INDIVIDUAL EXPOSURE/PROTECTION

8.1 Control parameters

Components whose limit values must be monitored in the workplace	
7664-38-2 Phosphoric acid	
TWA Italia	Short-term value: 3 mg/m ³
TWA Italia	Long-term value: 1 mg/m ³
VL Italia	Short-term value: 2 mg/m ³
VL Italia	Long-term value: 1 mg/m ³
IOELV UE	Short-term value: 2 mg/m ³
IOELV UE	Long-term value: 1 mg/m ³

8.2 Exposure controls

Protection of eyes:

Use anti-splash glasses



Skin protection:

Wear clothing that guarantees total protection of the skin, eg. cotton, rubber, PVC

Protection of hands:

Use protective anti-acid gloves guaranteeing total protection, eg. PVC, neoprene, etc.



STAINLESS STEEL CLEANER

Protection of respiratory tract:
Not necessary in normal use.

Heat risks:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance:

Form:	liquid
Colour:	colourless
Smell:	scented
pH (sol. 1%)	1 – 1.5
Boiling point:	<100° C
Flash point:	not applicable
Autoignition temperature:	not applicable
Autoignition:	product not self-igniting
Danger of explosion:	product not explosive
Flammable limits:	
lower:	not applicable
upper:	not applicable
Density at 20° C	1.15 g/cm ³
Relative density	not defined
Solubility in water:	soluble
Dynamic viscosity:	not defined
Kinematic viscosity:	not defined

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable in normal conditions

10.2 Chemical stability

Stable in normal conditions

10.3 Possibility of dangerous reactions

None

10.4 Conditions to avoid:

Stable in normal conditions

10.5 Incompatible materials:

None in particular.

10.6 Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Primary irritability

On the skin: corrosive on skin and mucous membranes

On eyes: strongly corrosive

Sensitization: no sensitizing effects are known of

STAINLESS STEEL CLEANER

Further toxicological data:

On the basis of the method of calculation of the Community General Directive on the classification of formulations in its latest valid version, the product presents the following risks:

Harmful

Corrosive

If ingested, causes heavy corrosion of the oral cavity and throat, with risk of perforation of the oesophagus and stomach.

Toxicological information on components:

Phosphoric acid: oral rat toxicity LD₅₀ 530 mg/kg; inhalatory rat toxicity CL₅₀ 850mg/l/2h

Sodium dodecyl sulphate: oral rat toxicity LD₅₀ 1288 mg/kg

Ammonium hydrogenfluoride: oral rat toxicity LD₅₀ 130 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Use according to good working practice and don't let the product escape into the environment.

12.2 Persistence and degradability

None.

12.3 Potential bioaccumulation

Not applicable.

12.4 Mobility in the soil

Not applicable.

12.5 Results of PBT and vPvB testing:

12.6 Other adverse effects

None

13. CONSIDERATIONS ON DISPOSAL

13.1 Waste treatment methods

Recover if possible. Send to authorized disposal plants or incineration under controlled conditions. Operate in compliance with current provisions of local and national law.

14. INFORMATION ON TRANSPORT

14.1 Hazardous goods for the intents and purposes of transport laws.

UN number

ADR/RID, IMDG, IATA: UN 3264

Name of shipment

ADR/RID, IMDG, IATA: 3264 LIQUIDO INORGANICO CORROSIVO, ACIDO, N.A.S. (acido fosforico, idrogeno fluoruro di ammonio); CORROSIVE LIQUID ACID, INORGANIC N.O.S. (phosphoric acid, ammonium hydrogenfluoride)

Classes of danger connected with transport

ADR/RID



Class:

8 Corrosive materials

STAINLESS STEEL CLEANER

Label: 8

IMDG/IATA



Class: 8 Corrosive materials
Label: 8

Packaging group
ADR/RID, IMDG, IATA: II

Dangers for the environment: -No

Marine pollutant: No

Special precautions for

Users: Attention: Corrosive materials

Kemler number: 80

EMS number: F-A-S-B

Segregation groups: acids

Transport of bulk according to
annex II, MARPOL 73/78

and IBC code: not applicable

Transport/further indications

ADR

Tunnel restriction code: E

15. REGULATORY INFORMATION

15.1 Standards and legislation on health, safety and environment specific to the substance or mixture legislative decree 3/2/1997 n. 52 (Classification, packaging and labelling of hazardous substances). D.Lgs 14/3/2003 n. 65 (Classification, packaging and labelling of hazardous formulations). legislative decree 81/08 and integration Title IX (Risks arising from chemical agents during work). Ministry of Employment decree 26/02/2004 (Limits on professional exposure); D.M. 03/04/2007 (Actuation of Directive n. 2006/8/CE). Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), (UE) Regulation n. 453/2010 (Annex I).

Where applicable, refer to the following laws:

Ministerial circulars 46 and 61 (aromatic amines).

Legislative decree 238, 21 September 2005 (Seveso Ter Directive)

Regulation CE n. 648/2004 (Detergents).

15.2 Chemical safety testing

No

16. OTHER INFORMATION

Text of phrases used in section 3:

Relevant phrases

H301	Toxic if ingested
H302	Harmful if ingested
H312	Harmful in contact with skin
H314	Causes serious cutaneous burns and series eye damage

SAFETY DATA SHEET

pursuant to Regulation 1907/2006 art.31 and Regulation 453/2010 Annex 1

Revision 1, 19 June 2012

STAINLESS STEEL CLEANER

H315	Causes cutaneous irritation
H319	Causes serious ocular irritation
R21/22	Harmful in contact with skin and if ingested
R 25	Toxic if ingested
R34	Causes burns
R36/38	Irritating to eyes and skin

This data sheet has been reviewed in all its section in conformity with Regulation 453/2010/UE.

This document was drafted by suitably trained expert in MSDS.

Main bibliographical sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

ECB - ESIS (European Chemical Substances Information System).

Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

The information contained herein is based on our knowledge as of the date indicated above. It refers solely to the product indicated and does not constitute a guarantee of particular qualities.

The user must make sure of the relevance and completeness of such Information in relation to the specific use that is to be made of it.

This data sheet annuls and replaces all previous releases.

ADR:	European agreement on international transport of hazardous goods by road.
CAS:	Chemical Abstract Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
DNEL:	Derived no-effect level.
EINECS:	European Inventory of Existing Chemical Substances.
GHS:	General harmonized system of classification and labelling of chemical products.
IATA:	International Air Transport Association.
RID:	European Regulation on transport of hazardous goods by rail.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Dangerous Goods Code.
LC ₅₀ :	Lethal Concentration for 50 per cent of the tested population.
LD ₅₀ :	Lethal Dose for 50 per cent of the tested population.
PNEC:	Predicted No-Effect Concentration.
RID:	European Regulation on international transport of hazardous goods by rail.
STEL:	Short Term Exposure Limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Target Limit Value.