



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Tile Cleaner (German: Fliesenreiniger)

Print date: 16.03.2016

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

Use of the substance/mixture

Cleaner Concentrate

Uses advised against

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name:	POLYTOP GmbH	
Street:	Langenselbolder Str. 8	
Place:	D-63543 Neuberg	
Telephone:	+49-6183-80014-0	Telefax: +49-6183-80014-14
e-mail (Contact person):	info@polytop.de	
Internet:	www.polytop.de	
Responsible Department:	Zentrale Tel. +49-6183-80014-0	

1.4. Emergency telephone number:

Vergiftungsinformationszentrale Österreich Tel. +43 (0) 1 406 43 43

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Contact with the skin and inhalation of aerosols/vapors from the preparation must be avoided.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Hydrochloric acid 31 %, Sulphuric acid 100 %, isotridecanol ethoxylates (>5-20EO), hydrogen fluoride

Signal word: Danger

Pictograms:



Hazard statements

H302+H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

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Precautionary statements

P260	Do not breathe gas/vapour/aerosol.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear suitable protective clothing, gloves and eye/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

2.3. Other hazards

Process vapors can irritate airways, skin and eyes.

Avoid the formation of aerosol.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

see below Labelling for contents according to regulation (EC) No. 648/2004, Additional information: fragrances (free of allergens 2003/15/EU), inorganic acids, Dyestuff.

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
-	Hydrochloric acid 31 %	10-20 %
	231-595-7	017-002-01-X
	Skin Corr. 1B, STOT SE 3; H314 H335	
7664-93-9	Sulphuric acid 100 %	10-20 %
	231-639-5	016-020-00-8
	Skin Corr. 1A; H314	
69011-36-5	isotridecanol ethoxylates (>5-20EO)	5-15 %
	Acute Tox. 4, Eye Dam. 1; H302 H318	
7664-39-3	hydrogen fluoride	< 1 %
	231-634-8	009-002-00-6
	Acute Tox. 2, Acute Tox. 1, Acute Tox. 2, Skin Corr. 1A; H330 H310 H300 H314	

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

5 % - 15 % non-ionic surfactants, perfumes.

Further Information

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After cleaning apply high-fat content skin care cream.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth thoroughly with water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

The following symptoms may occur:

acidosis.

vomiting.

pulmonary oedema.

Belly-ache.

spasms.

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

Cleaning agent, acidic

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic.

5.3. Advice for firefighters

Use water spray jet to minimise or disperse vapours.

Additional information

Remove product from area of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Keep away from unprotected people. Keep upwind.

The following must be prevented:

skin contact.

Eye contact.

6.2. Environmental precautions

Suitable material for diluting or neutralizing:

Lime



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caustic soda.

6.3. Methods and material for containment and cleaning up

Methods of cleaning - small amounts of spilled material: Dilute with plenty of water.

Methods of cleaning - large amounts of spilled material: Take up mechanically, placing in appropriate containers for disposal.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Ventilate affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation of aerosol.

Keep container tightly closed.

Advice on protection against fire and explosion

Not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

Suitable floor material: Acid proof.

Advice on storage compatibility

Do not store together with: Alkalis (alkalis).

Further information on storage conditions

Recommended storage temperature: up to °C 30

7.3. Specific end use(s)

Cleaning agent, acidic

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8 h)	WEL
		3	2.5		STEL (15 min)	WEL
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

exposure limit values:

Hydrochloric (HCl). 2ml/m³ 3mg/m³ Kategorie: 2(I)

8.2. Exposure controls

Protective and hygiene measures

Avoid contact with skin and eyes.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

Eye/face protection

Tightly sealed safety glasses.

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Hand protection

Suitable material:
PVC, Neopren, PVA, NR (Natural rubber (Caoutchouc), Natural latex).

Skin protection

Protective clothing: acid proof.

Respiratory protection

Respiratory protection necessary at: aerosol or mist generation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear red
Odour:	pungent

Test method

pH-Value (at 20 °C):	0-0,5 (concentration (g/l): 100)
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Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	102 °C
Flash point:	not applicable

Explosive properties

not Explosive.

Ignition temperature:	not applicable
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Oxidizing properties

not oxidizing.

Vapour pressure:	22 hPa
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Density:	1,11 g/cm ³
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Water solubility: (at 20 °C)	miscible.
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Solvent content:	0%
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9.2. Other information

Not combustible.

SECTION 10: Stability and reactivity

10.1. Reactivity

No risks worthy of mention.
Exothermic reaction with: Alkali (lye)

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No risks worthy of mention.

10.4. Conditions to avoid

The product develops hydrogen in an aqueous solution in contact with metals.

10.5. Incompatible materials

Materials to avoid: Alkali (lye)



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10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed or in contact with skin.

ATEmix calculated

ATE (oral) 922,5 mg/kg; ATE (dermal) 1020,4 mg/kg

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
69011-36-5	isotridecanol ethoxylates (>5-20EO)			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
7664-39-3	hydrogen fluoride			
	oral	ATE 5 mg/kg		
	dermal	ATE 5 mg/kg		
	inhalative vapour	ATE 0,5 mg/l		
	inhalative aerosol	ATE 0,05 mg/l		
	inhalative (1 h) gas	LC50 1610 ppm	Rat	IUCLID

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

no danger of sensitization.

STOT-single exposure

May cause respiratory irritation. (Hydrochloric acid)

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
-	Hydrochloric acid 31 %				
	Acute fish toxicity	LC50 862 mg/l	96 h	Leuciscus idus	
69011-36-5	isotridecanol ethoxylates (>5-20EO)				
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio	OECD TG 203
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Scenedesmus subspicatus	OECD TG 201
	Acute crustacea toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna	OECD TG 202

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
69011-36-5	isotridecanol ethoxylates (>5-20EO)			
	OECD-Richtlinie 301 A	>70%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
	OECD-Richtlinie 301 B	>60%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
69011-36-5	isotridecanol ethoxylates (>5-20EO)	2,4

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants.

Further information

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

CSB [mg O₂/g Produkt]: 110

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products

200114 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); acids
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Water.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

Consult supplier about waste disposal.

Cleaned containers may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 1760

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14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sulphuric acid 15-20 %, Hydrochloric acid 5-10 %)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Classification code: C9

Limited quantity: LQ22

Hazard No: 80

Tunnel restriction code: E

Other applicable information (land transport)

Special provisions: 274

E2

: 2

Inland waterways transport (ADN)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sulphuric acid 15-20 %, Hydrochloric acid 5-10 %)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Classification code: C9

Limited quantity: LQ22

Other applicable information (inland waterways transport)

Special provisions: 274

E2

Marine transport (IMDG)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sulphuric acid 15-20 %, Hydrochloric acid 5-10 %)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Limited quantity: 1 L

EmS: F-A, S-B

Other applicable information (marine transport)

Special provisions: 274

E2

Air transport (ICAO)

14.1. UN number: UN 1760

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14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sulphuric acid 15-20 %, Hydrochloric acid 5-10 %)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Limited quantity Passenger: 0.5 L

IATA-packing instructions - Passenger: 808

IATA-max. quantity - Passenger: 1 L

IATA-packing instructions - Cargo: 812

IATA-max. quantity - Cargo: 30 L

Other applicable information (air transport)

E2

: Y808

Special provisions: A3

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Keep container tightly closed.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

Other applicable information

Corrosive to metals.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): Volatile organic compounds (VOC) content in percent by weight: 0

Additional information

648/2004: chapter 3 chemical characterization (mixture)

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H300 Fatal if swallowed.
 H302 Harmful if swallowed.
 H302+H312 Harmful if swallowed or in contact with skin.
 H310 Fatal in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.



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H330 Fatal if inhaled.
H335 May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)