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

1.1. Product identifier

Wheel Cleaner Maximus (German: Felgenreiniger Maximus)

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

Use of the substance/mixture

Cleaner Concentrate
Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name:	Polytop GmbH (A)	
Street:	Langenselbolder Str. 8	
Place:	D-63543 Neuberg	
Telephone:	+49-6183-80014-0	Telefax: +49-6183-80014-14
e-mail:	info@polytop.de	
Internet:	www.polytop.de	
Responsible Department:	Tel. +49-6183-80014-0 mo-th 08:00 - 16:30 o'clock, fr 08:00 - 14:30 o'clock (research and development)	

Supplier

Company name:	DKS Technik GmbH	
Street:	Gnadenwald 90a	
Place:	A-6069 Gnadenwald	
Telephone:	+43 (0) 5223 48488	Telefax: DW 50
e-mail:	office@dks.at	
Internet:	www.dks.at	
Responsible Department:	Zentrale Tel. +43 (0) 5223 48488	

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Substance or mixture corrosive to metals: Met. Corr. 1
Skin corrosion/irritation: Skin Corr. 1A
Serious eye damage/eye irritation: Eye Dam. 1
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

2.2. Label elements

Hazard components for labelling

Hydrochloric acid, phosphoric acid, 2-propylheptanolethoxilate, Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

Signal word: Danger

Pictograms: GHS05-GHS07


Hazard statements

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

Precautionary statements

P260	Do not breathe Gas/vapour or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep 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/doctor.
P501	This material and its container must be disposed of as hazardous waste.

Additional advice on labelling

Labelling for contents according to regulation (EC) No 648/2004, annex 7:
5-15% phosphates, <5% nonionic surfactants, <5% cationic surfactants, fragrances (free of allergens 2003/15/EU), inorganic acids

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Process vapors can irritate airways, skin and eyes. Avoid the formation of aerosol.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-595-7	Hydrochloric acid	10 - < 15 %
7647-01-0	C - Corrosive, Xi - Irritant R34-37	
017-002-01-X	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335	
01-2119484862-27		
231-633-2	Phosphoric acid; orthophosphoric acid	5 - < 10 %
7664-38-2	C - Corrosive R34	
015-011-00-6	Met. Corr. 1, Skin Corr. 1B; H290 H314	
01-2119485924-24		
-	2-propylheptanolethoxilate	1 - < 5 %
160875-66-1		
	Acute Tox. 4, Eye Dam. 1; H302 H318	
-	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	1 - < 5 %
1554325-20-0		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318	

Full text of R, H and EUH phrases: see section 16.

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Call a physician in any case!

After inhalation

Following inhalation: Move victim to fresh air. Instruct person to keep calm and warm. If unconscious place in recovery position and seek medical advice. Call a physician immediately.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. After cleaning apply high-fat content skin care cream.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do not allow a neutralisation agent to be drunk. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

/ acidosis. / vomiting. / pulmonary oedema. / Belly-ache. / spasms.

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

Cleaning agent, acidic

Treat symptomatically.

Following inhalation: Glucocorticoid-Aerosol

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

No special fire protection measures are necessary.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Additional information

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Use water spray jet to protect personnel and to cool endangered containers.

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.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Suitable material for diluting or neutralizing: Lime / Caustic soda. Dilute with plenty of water.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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).

Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Personal protection equipment: see section 8

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. When diluting/dissolving, always have the water ready first, then slowly stir in the product.

Advice on protection against fire and explosion

The product itself does not burn.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed. Keep locked up and out of reach of children.

Suitable floor material: Acid proof.

Advice on storage compatibility

Do not store together with: Alkalis (alkalis).

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Recommended storage temperature: <30°C

7.3. Specific end use(s)

Cleaning agent, acidic
Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.
Suitable floor material: Acid proof.

Protective and hygiene measures

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Protect skin by using skin protective cream.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Tested protective gloves are to be worn:

PVC (Polyvinyl chloride) (Thickness of the glove material: 0,5mm) | Butyl caoutchouc (butyl rubber) (Thickness of the glove material: 0,5mm) | CR (polychloroprene, chloroprene rubber) (Thickness of the glove material: 0,5mm) | NBR (Nitrile rubber) (Thickness of the glove material: 0,35mm) | FKM (fluoro rubber) (Thickness of the glove material: 0,4mm)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.
Unsuitable material: Natural fibres (e.g. cotton)

Respiratory protection

Suitable respiratory protection apparatus: Half-face mask (DIN EN 140), Filter type: B-P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear light yellow
Odour:	pungent

	Test method
pH-Value (at 20 °C):	0 (concentration (g/l): 100)

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	1060 °C
Flash point:	not applicable

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

not Explosive.

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

not oxidizing.

Vapour pressure: (at 20 °C)	approx. 22 hPa
Density (at 20 °C):	1,11 g/cm³
Water solubility: (at 20 °C)	complete miscible
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	0%

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Alkali (lye), Oxidising agent, strong

10.4. Conditions to avoid

No information available.

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

Based on available data, the classification criteria are not met.

Acute toxicity

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
160875-66-1	2-propylheptanolethoxilate				
	oral	LD50	>2000 mg/kg	Rat	
1554325-20-0	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides				
	oral	ATE	500 mg/kg		

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. ((Hydrochloric acid))

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] | [d]	Species	Source
7647-01-0	Hydrochloric acid					
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus	
7664-38-2	Phosphoric acid; orthophosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	
160875-66-1	2-propylheptanolethoxilate					
	Acute fish toxicity	LC50	10-100 mg/l	96 h		
	Acute algae toxicity	ErC50	10-100 mg/l	72 h		
	Acute crustacea toxicity	EC50	10-100 mg/l	48 h		

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

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

No risks worthy of mention.

Further information

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

Chemical Oyxgen Demand (COD): 245 [mg O2/g]

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. Dispose of waste according to applicable legislation.

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 used product

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

Cleaned containers may be recycled. Handle contaminated packages in the same way as the substance itself.
Water (with cleaning agent). Consult supplier about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L

Marine transport (IMDG)

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Special Provisions:	223, 274
Limited quantity:	5 L
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Keep container tightly closed. Corrosive to metals.

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

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0%

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation):
Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

not applicable
This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none
This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.
Water contaminating class (D):	1 - slightly water contaminating

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Hydrochloric acid
Phosphoric acid; orthophosphoric acid

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,7,8,9,11,12,14,15,16.
Version 1,5 - 19.01.2017 -

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
TLV: Threshold Limiting Value (is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse effects)
ATEmix: Acute Toxicity Estimates of a mixture
CAS: Chemical Abstracts Service (subdivision of the American Chemical Society)
CAS no: a unique numerical identifier assigned by Chemical Abstracts Service to every chemical substance (rarely a group of substances), described in the open scientific literature
CLP, 1272/2008 (EC): Regulation of the european parliament on Classification, Labelling and Packaging of Substances and Mixtures
COD: chemical oxygen demand
DNEL: Derived No Effect Level
EC50: half maximal effective concentration (toxicity value), effect on 50% of the test population
EC: European Community
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EN: European Standards
ErC50: median inhibitory concentration of growth rate (algal inhibition test), effect on 50% of the test population
EUH-phrase (-Code): precautionary statement (EC-specified, not derived from GHS)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals (of the United nations)
hPa: Hectopascal (1000 hPa= 1bar)
H-phrase (-Code): hazardous statement
IATA: International Air Transport Association
IBC-Code: The IBC Code provides an international standard for the safe carriage in bulk by sea of dangerous chemicals
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
IUCLID: International Uniform ChemicaL Information Database
LC50: median lethal (killing) concentraion (toxicity value), effect on 50% of the test population
LD50: median lethal (killing) dose, effect on 50% of the test population

log Kow: partition-coefficient between octanol and water (measures how hydrophilic or hydrophobic a chemical substance is)
MARPOL: Maritime Pollution Convention
OECD: Organisation for Economic Co-operation and Development
OECD 301 (A-F: methods for determination of biodegradibility
PBT: persistent, bioacculumative and toxic (substances that have high resistance to degradation from abiotic and biotic factors, high mobility in the environment and high toxicity)
PNEC: Predicted No Effect Concentration
ppm: parts per million, 10000ppm=1%
P-phrase (-Code): precautionary statement
REACH, 1907/2006 (EC): Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulation concerning the Carriage of Dangerous Goods by Rail (
STOT RE: Specific Target Organ Toxicity (repeated exposure)
STOT SE: Specific Target Organ Toxicity (single exposure)
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative (s.PBT)

Relevant R phrases (number and full text)

34	Causes burns.
37	Irritating to respiratory system.

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.)