

Garage Floor Cleaner MAXIMUS (German: Werkstattbodenreiniger MAXIMUS)

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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

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

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements**Hazard components for labelling**

2-propylheptanoethoxilate, Alcohols, C9-11 ethoxylated, Sodium hydroxide; caustic soda, Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Signal word: Danger

Pictograms: GHS05



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Hazard statements

- H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

- P260 Do not breathe Gas/vapour or spray.
P264 Wash hands thoroughly after handling.
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.
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% nonionic surfactants, 5-15% phosphates, <5% cationic surfactants, <5% amphoteric surfactants, <5% phosphonates, fragrances (free of allergens 2003/15/EU), Dispersing agent, silicates

2.3. Other hazards

Do not mix with acids.
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**

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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		
230-785-7	Tetrapotassium pyrophosphate	10 - < 15 %
7320-34-5	Xi - Irritant R36	
	Eye Irrit. 2; H319	
01-2119489369-18		
-	2-propylheptanoethoxilate	1 - < 5 %
160875-66-1		
	Acute Tox. 4, Eye Dam. 1; H302 H318	
	Alcohols, C9-11 ethoxylated	1 - < 5 %
68439-46-3	Xi - Irritant R41	
	Eye Dam. 1; H318	
215-185-5	Sodium hydroxide; caustic soda	1 - < 5 %
1310-73-2	C - Corrosive R35	
011-002-00-6	Met. Corr. 1, Skin Corr. 1A; H290 H314	
01-2119457892-27		
	Quaternary coco alkyl methyl amine ethoxylate methyl chloride	1 - < 5 %
863679-20-3	Xn - Harmful, Xi - Irritant R22-38-41	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318	
	Isotridecanol, ethoxylated (5-6 EO)	1 - < 5 %
69011-36-5		
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	

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. Do not wash off with acidic cleaning agents.

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

/ Belly-ache. / spasms. / Headache. / Nausea.

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

Cleaning agent, alkaline
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

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.
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. Do not mix with acids.

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.

Advice on storage compatibility

Do not store together with: acid.

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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, alkaline
Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

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 brown
Odour: product-specific

Test method

pH-Value (at 20 °C): 13,2-13,8 DIN 19261

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Changes in the physical state

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

Flammability

Solid:	not determined
Gas:	not determined

Explosive properties

not Explosive.

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

Auto-ignition temperature

Solid:	not determined
Gas:	not determined

Oxidizing properties

not oxidizing.

Vapour pressure: (at 20 °C)	23 hPa
Density:	1,15 g/cm ³
Water solubility: (at 20 °C)	complete miscible

Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Evaporation rate:	not determined
Solvent content:	0%

9.2. Other information**SECTION 10: Stability and reactivity****10.2. Chemical stability**

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

10.3. Possibility of hazardous reactionsViolent reaction with:
acid, concentrated.**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**

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
160875-66-1	2-propylheptanoethoxilate				
	oral	LD50 mg/kg	>2000	Rat	
68439-46-3	Alcohols, C9-11 ethoxylated				
	oral	LD50 mg/kg	>2000	Rat	
863679-20-3	Quaternary coco alkyl methyl amine ethoxylate methyl chloride				
	oral	LD50 mg/kg	>300 - <2000	Rat	
69011-36-5	Isotridecanol, ethoxylated (5-6 EO)				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
160875-66-1	2-propylheptanoethoxilate					
	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		
68439-46-3	Alcohols, C9-11 ethoxylated					
	Acute fish toxicity	LC50	2,4 mg/l	96 h		
	Acute algae toxicity	ErC50	4,5 mg/l			
	Acute crustacea toxicity	EC50	1-10 mg/l	48 h		
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50	45,4 mg/l	96 h	Onchorhynchus mykiss	
863679-20-3	Quaternary coco alkyl methyl amine ethoxylate methyl chloride					
	Acute fish toxicity	LC50	>10-100 mg/l	96 h		
	Acute algae toxicity	ErC50	1-10 mg/l		Alge	
	Acute crustacea toxicity	EC50	1-10 mg/l	48 h	Daphnia	
69011-36-5	Isotridecanol, ethoxylated (5-6 EO)					
	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 mixture 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, ethoxylated (5-6 EO)			
	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 data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68439-46-3	Alcohols, C9-11 ethoxylated	2,4
69011-36-5	Isotridecanol, ethoxylated (5-6 EO)	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

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 Oxygen Demand (COD): 269 [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.

Waste disposal number of waste from residues/unused products

200115 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); alkalines
 Classified as hazardous waste.

Waste disposal number of used product

200115 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); alkalines
 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

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Land transport (ADR/RID)

14.1. UN number:	UN 3266
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
	
Classification code:	C5
Special Provisions:	274
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 3266
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
	
Classification code:	C5
Special Provisions:	274
Limited quantity:	1 L

Marine transport (IMDG)

14.1. UN number:	UN 3266
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
	
Special Provisions:	274
Limited quantity:	1 L
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 3266
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II

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Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

IATA-packing instructions - Passenger:

851

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

855

IATA-max. quantity - Cargo:

30 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:

Tetrapotassium pyrophosphate

Sodium hydroxide; caustic soda

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,9,11,12,14,15,16.

Version 3,1 - 19.01.2017 -

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

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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) concentration (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 biodegradability)

PBT: persistent, bioaccumulative 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)

22	Harmful if swallowed.
35	Causes severe burns.
36	Irritating to eyes.
38	Irritating to skin.
41	Risk of serious damage to eyes.

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.

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

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