

Vitexstar

Revision date: 31.01.2020

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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

Company name:	Polytop GmbH	
Street:	Schafweide 2	
Place:	D-63762 Großostheim	
Telephone:	+49 (0) 6026 99577-0	Telefax: +49 (0) 6026 99577-56
e-mail:	info@polytop.de	
Internet:	www.polytop.de www.polytop-shop.de	
Responsible Department:	Tel. +49 (0) 6026 99577-0 mo-th 08:00 - 16:30 o'clock, fr 08:00 - 14:30 o'clock (research and development)	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega-hydroxy, sodium etasulfate, Sodium hydroxide; caustic soda

Signal word: Danger**Pictograms:****Hazard statements**

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

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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 or shower.

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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.

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

Chemical characterization

see below Labelling for contents according to regulation (EC) No. 648/2004, dye, Additional information: moisturizers, glycol ether, alkaline

Hazardous components

CAS No	Chemical name	EC No	Index No	REACH No	Quantity
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				1 - < 5 %
		203-961-6	603-096-00-8	01-2119475104-44	
7320-34-5	Tetrapotassium pyrophosphate				1 - < 5 %
		230-785-7		01-2119489369-18	
160875-66-1#	Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega-hydroxy				1 - < 5 %
		605-233-7			
126-92-1	sodium etasulfate				1 - < 5 %
		204-812-8		01-2119971586-23	
1310-73-2	Sodium hydroxide; caustic soda				1 - < 5 %
		215-185-5	011-002-00-6	01-2119457892-27	
5989-27-5	Fragrance Limonene				0,01-0,1 %
		227-813-5	601-029-00-7	01-2119529223-47	
78-70-6	Fragrance linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool				0,01-0,1 %
		201-134-4	603-235-00-2	01-2119474016-42	

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

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

< 5 % phosphates, < 5 % non-ionic surfactants, < 5 % anionic surfactants, perfumes (Limonene, Linalool).

Further Information

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

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH]. Art.2 Abs.9 (Polymer)

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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.

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. After cleaning apply high-fat content skin care cream.

After ingestion

Rinse mouth thoroughly with water. Let water be drunk 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.

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

Cleaning agent, alkaline

Treat symptomatically. Give Dimeticon (Defoamer).

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

No special fire protection measures are necessary.

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.

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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.

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.

Hints on joint storage

Do not store together with: acid.

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/m³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	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.

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)

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(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: green yellow clear
 Odour: fruity

Test method

pH-Value (at 20 °C): 13,4

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: 102 °C
 Flash point: >110 °C

Flammability

Solid: not determined
 Gas: not determined

Explosive properties

not Explosive.

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

Auto-ignition temperature

Solid: not determined
 Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

not oxidizing.

Vapour pressure: 23 hPa
 (at 20 °C)

Density (at 20 °C): 1,05 g/cm³

Water solubility: complete miscible
 (at 20 °C)

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

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Evaporation rate: not determined
 Solvent separation test: not determined
 Solvent content: <5%

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 reactions

Violent 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

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 mg/kg	5660	Rat	
	dermal	LD50 mg/kg	4120	Rabbit	
160875-66-1 #	Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega-hydroxy				
	oral	LD50 mg/kg	>2000	Rat	
126-92-1	sodium etasulfate				
	oral	LD50 mg/kg	8000	Rat	
	dermal	LD50 mg/kg	7200	Rabbit	
5989-27-5	Fragrance Limonene				
	oral	LD50 mg/kg	> 2000	Rat	
	dermal	LD50 mg/kg	> 2000	Rabbit	IUCLID

Irritation and corrosivity

Causes severe skin burns and eye damage.
 Causes serious eye damage.

Sensitising effects

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.

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STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience

Other observations

Has de-greasing effect on the skin.

After cleaning apply high-fat content skin care cream.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute algae toxicity	ErC50 > 100 mg/l		Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		
160875-66-1 #	Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega-hydroxy					
	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			
126-92-1	sodium etasulfate					
	Acute fish toxicity	LC50 >100 mg/l	96 h	rainbow trout		
	Acute algae toxicity	ErC50 330 mg/l	72 h	scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 1210 mg/l	48 h	daphnia magna		
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 45,4 mg/l	96 h	Onchorhynchus mykiss		
5989-27-5	Fragrance Limonene					
	Acute fish toxicity	LC50 0,7 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 0,42 mg/l	48 h	Daphnia magna		

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 data available

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25°C)
5989-27-5	Fragrance Limonene	4,23

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): 218 [mg O2/g]

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - 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; hazardous waste

List of Wastes Code - 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; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

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 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

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Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 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
 Excepted quantity: E2

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
 Excepted quantity: E2
 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
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 Passenger LQ: Y840
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L

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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

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

2004/42/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 hazard class (D): 1 - slightly hazardous to water

Additional information

Moreover, national legislation has to be observed!

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

- 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
- Tetrapotassium pyrophosphate
- sodium etasulfate
- Sodium hydroxide; caustic soda
- Fragrance Limonene
- Fragrance linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool

SECTION 16: Other information

Changes

Version 2,1 - 31.01.2017 -

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)

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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 H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic 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

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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.)