

Polytop GmbH

Page 1 of 9

according to Regulation (EC) No 1907/2006

### **Polystar® Plus**

Revision date: 01.09.2020

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

#### 1.1. Product identifier

Polystar® Plus

#### 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

Polytop GmbH	
Schafweide 2	
D-63762 Großostheim	
+49 (0) 6026 99577-0	Telefax: +49 (0) 6026 99577-56
info@polytop.de	
Zentrale	
www.polytop.de www.polytop-sho	op.de
Tel. +49 (0) 6026 99577-0 mo-th 08	8:00 - 16:30 o'clock, fr 08:00 - 14:30 o'clock
(research and development)	
	Polytop GmbH Schafweide 2 D-63762 Großostheim +49 (0) 6026 99577-0 info@polytop.de Zentrale www.polytop.de www.polytop-sho Tel. +49 (0) 6026 99577-0 mo-th 0

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Hazard Statements: Causes skin irritation. Causes serious eye irritation. The mixture need not be classified as corrosive in spite of the extreme pH.

In vitro skin test OECD 431 (+ Regulation (EC) No. 440/2008, Annex, B.40bis ): not corrosive

According to Directive 1999/45/EC or Appendix VI to Directive 67/548/EEC the preparation requires no special labelling.

There is no obligatory labelling requirement according to the Directive covering preparations 1999/45/EC. Product is classified and labelled in accordance with EC regulation 1272/2008/EU (CLP/GHS).

#### 2.2. Label elements

### Regulation (EC) No. 1272/2008

Signal word: Warning **Pictograms:** 



# Hazard statements

H315

Causes skin irritation.



according to Regulation (EC) No 1907/2006

### Polystar® Plus

Revision date: 01.09.2020

Page 2 of 9

Polytop GmbH

H319

Causes serious eye irritation.

#### Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

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

#### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### Chemical characterization

see below Labelling for contents according to regulation (EC) No. 648/2004, Complexing agent (GLDA), Dyestuff.

#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•	•		
68439-46-3	Alcohols, C9-11 ethoxylated			1-5 %	
	#				
	Eye Dam. 1; H318		•		
863679-20-3	Quaternary coco alkyl methyl am	ine ethoxylate methyl chlorid	e	0,1-1,0 %	
	#				
	Acute Tox. 4, Skin Corr. 1B, Aqua	atic Acute 1; H302 H314 H40	0		
5989-27-5	Limonene (perfumes)			0,01-0,1 %	
			01-2119493353-35		
	Flam. Liq. 3, Skin Irrit. 2, Skin Se H400 H410	ns. 1, Aquatic Acute 1, Aqua	tic Chronic 1; H226 H315 H317		
78-70-6	Linalool (perfumes)			0,01-0,1 %	
	201-134-4		01-2119474016-42		
	Skin Irrit. 2, Eye Irrit. 2A; H315 H	319	•		
5392-40-5	Fragrance citral			0,01-0,1 %	
	226-394-6	605-019-00-3	01-2119462829-23		
	Skin Irrit. 2, Skin Sens. 1; H315 H	1317			

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

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

< 5 % non-ionic surfactants, < 5 % cationic surfactants, < 5 % phosphonates, < 5 % amphoteric surfactants, perfumes (Limonene, Linalool, Citral).

#### **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)

#### **SECTION 4: First aid measures**



Polytop GmbH

according to Regulation (EC) No 1907/2006

### **Polystar® Plus**

Revision date: 01.09.2020

Page 3 of 9

#### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

### 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

Do NOT induce vomiting. Rinse mouth thoroughly with water. Seek medical advice. Let water be drunken in little sips (dilution effect).

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

No known symptoms to date.

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

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.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

The following must be prevented: Eye contact.

#### 6.2. Environmental precautions

Suitable material for diluting or neutralizing: Water

### 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.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid the formation of aerosol. The following must be prevented: Eye contact.

### Advice on protection against fire and explosion

Not combustible.



Revision date: 01.09.2020

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### Polystar® Plus

Page 4 of 9

#### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

### Hints on joint storage

No special precautionary measures are necessary.

### Further information on storage conditions

Recommended storage temperature: up to °C: 30

### 7.3. Specific end use(s)

Cleaning agent, alkaline

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Protective and hygiene measures

#### Avoid contact with eyes.

Wash hands before breaks and after work.

#### Eye/face protection

Tightly sealed safety glasses.

### Hand protection

Suitable material: / penetration time (maximum wearing period): / Thickness of the glove material: PVC (polyvinyl chloride) / >=8h / 0,5mm Butyl caoutchouc (butyl rubber) / >=8h / 0,5mm CR (polychloroprenes, Chloroprene rubber). / >=8h / 0,5mm NBR (Nitrile rubber) / >=8h / 0,35mm FKM (fluoro rubber) / >=8h / 0,4mm

#### Skin protection

Body protection: not required.

### **Respiratory protection**

Avoid the formation of aerosol.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid green clear fruity		
			Test method
pH-Value (at 20 °C):		12,0-12,5	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		102 °C	
Flash point:		not applicable	
Flammability			



according to Regulation (EC) No 1907/2006

#### **Polystar® Plus** Revision date: 01.09.2020 Page 5 of 9 not determined Solid: 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 not determined Gas: not determined Decomposition temperature: **Oxidizing properties** not oxidizing. Vapour pressure: 23 hPa (at 20 °C) Density (at 20 °C): 1,07 g/cm<sup>3</sup> Water solubility: miscible. Solubility in other solvents not determined Partition coefficient: not determined not determined Viscosity / dynamic: Vapour density: not determined Evaporation rate: not determined not determined Solvent separation test: Solvent content: 0% 9.2. Other information Not combustible.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No risks worthy of mention.

#### 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

No risks worthy of mention.

#### 10.5. Incompatible materials

acid, concentrated.

#### 10.6. Hazardous decomposition products

No risks worthy of mention.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects



Polytop GmbH

according to Regulation (EC) No 1907/2006

### **Polystar® Plus**

Revision date: 01.09.2020

Page 6 of 9

#### Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
68439-46-3	Alcohols, C9-11 ethoxylated						
	oral	LD50 >2000 mg/kg	Rat				
863679-20-3							
	oral	LD50 >300<20 00 mg/kg					

#### Irritation and corrosivity

The mixture need not be classified as corrosive in spite of the extreme pH.

In vitro skin test OECD 431: not corrosive

Test was carried out with a similar formulation.

Causes serious eye irritation.

#### 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.

### 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
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 mg/l	1-10	48 h			
863679-20-3	Quaternary coco alkyl methyl amine ethoxylate methyl chloride						
	Acute algae toxicity	ErC50 mg/l	>0,1<1	72 h			
	Acute crustacea toxicity	EC50 mg/l	>0,1<1	48 h			

### 12.2. Persistence and degradability

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



Polvtop GmbH

Page 7 of 9

according to Regulation (EC) No 1907/2006

### **Polystar® Plus**

Revision date: 01.09.2020

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
863679-20-3	Quaternary coco alkyl methyl amine ethoxylate methyl chloride	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

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

#### 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) [mg O2/g Produkt]: 280

### **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

200130 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents other than those mentioned in 20 01 29

#### List of Wastes Code - contaminated packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND 150102 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)	
<u>14.1. UN number:</u>	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Marine transport (IMDG)	
<u>14.1. UN number:</u>	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Air transport (ICAO-TI/IATA-DGR)	



according to Regulation (EC) No 1907/2006

	Polystar® Plus	
Revision date: 01.09.2020		Page 8 of 9
<u>14.1. UN number:</u>	No dangerous good in sense of these transport regulations.	
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
<b>14.6. Special precautions for user</b> No special measures are necessary.		
14.7. Transport in bulk according to Annex II	of Marpol and the IBC Code	
not relevant		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regula	ations/legislation specific for the substance or mixture	
EU regulatory information		
2004/42/EC (VOC):	Volatile organic compounds (VOC) in percentage by weight: <0,2	
Additional information		
Candidate List according to Article 59 of	stances of very high concern (SVHC) which are subject to authorisation	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).	
Water hazard class (D): Additional information	2 - obviously hazardous to water	
Observe in addition any national regulat	tions!	
15.2. Chemical safety assessment		
For the following substances of this mixi Limonene (perfumes) Linalool (perfumes) Fragrance citral	ture a chemical safety assessment has been carried out:	
SECTION 16: Other information		
Changes This data sheet contains changes from t Abbreviations and acronyms 2003/15/EG: contains a list of allergenic	the previous version in section(s): 1,3,8,11,13,15.	

2003/15/EG: contains a list of allergenic fragrance substances
648/2004 (EG): Detergents Regulation
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



according to Regulation (EC) No 1907/2006

### Polystar® Plus

Revision date: 01.09.2020 Page 9 of 9 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 H and EUH statements (number and full text) H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. Causes serious eye damage. H318 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 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.)