

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 1 of 10

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Diamant 5000 Super Cut

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

Abrasive

**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**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Special labelling of certain mixtures**

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

**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, Additional information: Abrasive, Paraffinum Liquidum, thickeners

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 2 of 10

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-46-7	Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0,1% benzene)			15 - < 20 %
	265-148-2		01-2119457735-29	
	Asp. Tox. 1; H304 EUH066			
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)			15 - < 20 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
122-99-6	2-phenoxyethanol			< 1 %
	204-589-7	603-098-00-9		
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
2372-82-9	N,N-Bis-(3-Aminopropyl)-dodecylamin			< 0.1 %
	219-145-8			
	Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H301 H314 H373 H400 H410			
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one			< 0.1 %
	420-590-7	606-079-00-3		
	Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H314 H317 H400 H410			

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

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

>= 30 % aliphatic hydrocarbons, < 5 % non-ionic surfactants, preservation agents ( PHENOXETOL, LAURYLAMINE DIPROPYLENEDIAMINE, BUTYLBENZISOTHIAZOLINONE).

**Further Information**

viscosity, kinematic: >20,5 mm<sup>2</sup>/s (40°C).

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**

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.  
Wash hands before breaks and after work.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Do NOT induce vomiting.  
Have victim drink large quantities of water, with active charcoal if possible.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**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 activated carbon, in order to reduce the resorption in the gastro-enteric tract.

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 3 of 10

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
The product itself does not burn.

**5.2. Special hazards arising from the substance or mixture**

The vapours are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

**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**

High slip hazard because of leaking or spilled product.  
Provide adequate ventilation.

**6.2. Environmental precautions**

Product may not be released into water without pre-treatment.  
Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

SECTION 12: Ecological information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas.

**Advice on protection against fire and explosion**

No special measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

No special measures are necessary.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Protect against: frost.  
storage temperature:  
of °C: 0 up to °C: 30

**7.3. Specific end use(s)**

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 4 of 10

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
1344-28-1	Aluminium oxides, respirable dust	-	4		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

**8.2. Exposure controls**

**Protective and hygiene measures**

No special measures are necessary.  
Wash hands before breaks and after work.

**Eye/face protection**

Eye protection: not required.

**Hand protection**

Hand protection: not required.

**Skin protection**

Body protection: not required.

**Respiratory protection**

Respiratory protection not required.

**SECTION 9: Physical and chemical properties**

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

Physical state: viscous  
Colour: white  
Odour: aliphatic hydrocarbons

**Test method**

pH-Value (at 20 °C): 7,5-8,5

**Changes in the physical state**

Melting point: not determined  
Initial boiling point and boiling range: 100-220\* °C  
Flash point: 70 °C

**Flammability**

Solid: not applicable  
Gas: not determined

**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: 0,6 vol. %  
Upper explosion limits: 8 vol. %  
Ignition temperature: >200 °C

**Auto-ignition temperature**

Solid: not applicable  
Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties**

not oxidizing.

Vapour pressure: 24 hPa  
(at 20 °C)

Density: 1,06 g/cm<sup>3</sup>

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 5 of 10

Water solubility:	partially miscible
<b>Solubility in other solvents</b> not determined	
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	7000-10000 mPa·s
Viscosity / kinematic: (at 40 °C)	>20,5 mm <sup>2</sup> /s
Vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	15%

**9.2. Other information**

\* aliphatic hydrocarbons boiling temperature / boiling range 180-220°C

**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**

none

**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.

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 6 of 10

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-46-7	Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0,1% benzene)				
	oral	LD50 >5000 mg/kg	Rat		OECD 401
	dermal	LD50 >3160 mg/kg	Rabbit		OECD 402
	inhalation (4 h) vapour	LC50 5266 mg/l	Rat		OECD 403
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)				
	oral	LD50 >5000 mg/kg	rat		
	dermal	LD50 >5000 mg/kg	rbt		
	inhalation vapour	LC50 ..... mg/l	Vapour pressure: to low	4h max.5mg/l	
122-99-6	2-phenoxyethanol				
	oral	LD50 1850 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
2372-82-9	N,N-Bis-(3-Aminopropyl)-dodecylamin				
	oral	ATE 100 mg/kg			

**Irritation and corrosivity**

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

**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**

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-46-7	Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0,1% benzene)					
	Acute fish toxicity	LC50 >1000 mg/l	96 h			
	Acute algae toxicity	ErC50 >3000 mg/l	72 h	Skeletonema costatum		
	Acute crustacea toxicity	EC50 >3000 mg/l	48 h			
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna		
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 220 - 460 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

Organic part of product is bio-degradable.

(Solvent.: Abiotic degradation in Air )

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)			
		80%	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
122-99-6	2-phenoxyethanol	1,16

**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**

Doesn't get into the sewage water as long as the process is carried out according to regulations.

**SECTION 13: Disposal considerations**

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 8 of 10

**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**

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 with tenside additive.

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** 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)**

**14.1. UN number:** 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)**

**14.1. UN number:** 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)**

**14.1. UN number:** 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

**14.6. Special precautions for user**

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 regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: 2-phenoxyethanol

2004/42/EC (VOC): 15%

**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



**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 9 of 10

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**

Water hazard class (D): 1 - slightly hazardous to water

**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:

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0,1% benzene)

hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)

Glycerol

**SECTION 16: Other information****Abbreviations and acronyms**

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

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%

**Diamant 5000 Super Cut**

Revision date: 26.03.2020

Page 10 of 10

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)**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

**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 the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

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