



**Diamond compounds Hyprez® S**

Print date 13.11.2023  
Revision date 13.11.2023  
Version 1.0 (en)

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

**1.1 Product identifier**

**Trade name/designation** Diamond compounds Hyprez® S

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

**Sector of uses [SU]**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**Product Categories [PC]**

Abrasive

**Use of the substance/mixture**

Polishing agent for the treatment of metallic surfaces and painted surfaces  
Polishing agent

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

joke Technology GmbH  
Asselborner Weg 14-16  
D-51249 Bergisch Gladbach  
Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60  
E-mail [info@joke.de](mailto:info@joke.de)  
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):  
[sida@joke.de](mailto:sida@joke.de)

**1.4 Emergency telephone number**

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN) +49 (0) 761 / 1 92 40  
REACH and CLP UK CA Help Desk +44 171 635 9191

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Skin Irrit. 2, H315  
Eye Dam. 1, H318  
STOT RE 2, H373  
Aquatic Chronic 2, H411

**Hazard statements for health hazards**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Hazard statements for environmental hazards**

H411 Toxic to aquatic life with long lasting effects.

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**2.2 Label elements**

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

Hazard pictograms



GHS05



GHS08



GHS09

**Signal word**

Danger

**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing and eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

**2.3 Other hazards**

**Adverse human health effects and symptoms**

Irritating to eyes and skin.

May irritate nasal mucosa and respiratory tract.

May cause slight skin irritation.

**Adverse environmental effects**

The mixture does not contain substances listed for endocrine disrupting properties in accordance with REACH Article 59(1) or has been determined not to contain substances with endocrine disrupting properties at a concentration of 0.1% or greater in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

**Results of PBT and vPvB assessment**

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

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

**3.1 Substances**

not applicable

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**3.2 Mixtures****Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
124-30-1	204-695-3	octadecylamine	5 - 15 weight-%	Asp. Tox. 1; H304 STOT RE 2; H373(gastro-intestinal tract, liver, immune system) Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=10 (Aquatic Acute 1) M=10 (Aquatic Chronic 1) ATE(oral): 1020 mg/kg ATE(dermal): > 2000 mg/kg ATE(inhalation gas): > 0.1 mg/L
39464-70-5	NA	Polyoxyethylene phenyl ether phosphate	1 - 10 weight-%	Skin Irrit. 2; H315 Eye Dam. 1; H318	
68526-94-3	614-570-9	Alcohols, C12-20, ethoxylated	1 - 5 weight-%	Aquatic Acute 1; H400	
128-37-0	204-881-4	2,6-di-tert-butyl-p-cresol	≤ 1 weight-%	STOT SE 3; H335 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	ATE(oral): > 6000 mg/kg ATE(dermal): > 2000 mg/kg ATE(inhalation dust/mist): > 2 mg/L
7664-38-2	231-633-2	phosphoric acid	< 0.5 weight-%	Skin Irrit. 2; H315 Eye Irrit. 2; H319	Skin Irrit. 2; H315: 10<=C<25 Eye Irrit. 2; H319: 10<=C<25 Skin Corr. 1B; H314: 25<=C<100  ATE(oral): 3500 mg/kg ATE(dermal): 2740 mg/kg
123-91-1	204-661-8	1,4-dioxane	< 0.05 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Carc. 1B; H350 STOT SE 3; H335	ATE(oral): approx. 5150 mg/kg ATE(dermal): 2100 mg/kg

REACH No.	Substance name
01-2119473804-32	octadecylamine

**Additional information**

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:



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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Following inhalation**

This information is not available.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

In case of skin reactions, consult a physician.

Remove contaminated, saturated clothing immediately.

**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**

Do NOT induce vomiting.

Seek medical advice immediately.

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

**Symptoms**

Irritating

Causes severe eye irritation.

**Effects**

No data available

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

**Notes for the doctor**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Foam

Extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

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

**Hazardous combustion products**

In the event of fire the following can be released:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)



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**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

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

Wear full chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Provide adequate ventilation.

Avoid contact with skin and eyes.

Remove persons to safety.

Keep people away and stay on the upwind side.

Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

**For emergency responders**

Remove persons to safety.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Personal protection equipment

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

Avoid release into the environment

In case of pollution of waters or sewers, inform the competent authorities.

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

**For containment**

Send in suitable containers for recovery or disposal.

Take up with absorbent material.

After taking up the material dispose according to regulation.

Take up mechanically and send for disposal.

**6.4 Reference to other sections**

Personal protection equipment: see section 8

Disposal: see section 13

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Keep away from sources of ignition - No smoking.

Usual measures for fire prevention.

Avoid:

Generation/formation of dust

Eye contact

Skin contact

Do not inhale gases/vapours/aerosols.

Do not inhale dust.

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**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.  
 Remove contaminated, saturated clothing immediately.  
 Wash contaminated clothing immediately.  
 Wash hands before breaks and after work.

**7.2 Conditions for safe storage, including any incompatibilities****Packaging materials:**

Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester

**Requirements for storage rooms and vessels**

Keep/Store only in original container.  
 Keep container tightly closed.

**Storage class**

13 Non-combustible solids that cannot be assigned to any of the above storage classes

**Materials to avoid**

Do not store together with:  
 Oxidising agent  
 Food and feedingstuffs

**Further information on storage conditions**

Store and transport separate of food.  
 Keep in a cool, well-ventilated place.  
 Storage temperature may not exceed 50°C (=122°F).  
 Protect from sun.

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m <sup>3</sup> ] Short-term(mg/m <sup>3</sup> ) 2 2000/39/EC
123-91-1	204-661-8	1,4 Dioxane	20 [ml/m <sup>3</sup> (ppm)] 73 [mg/m <sup>3</sup> ] 2009/161/EU
123-91-1	204-661-8	1,4-Dioxane, tech. grade	20 [ml/m <sup>3</sup> (ppm)] 73 [mg/m <sup>3</sup> ] (IE)
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m <sup>3</sup> ] Short-term(mg/m <sup>3</sup> ) 2 (1) (1) 15 minutes reference period (IE)
123-91-1	204-661-8	1,4-Dioxane, tech. grade	20 [ml/m <sup>3</sup> (ppm)] 73 [mg/m <sup>3</sup> ] (UK)
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m <sup>3</sup> ] Short-term(mg/m <sup>3</sup> ) 2 (UK)



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**8.2 Exposure controls**

**Appropriate engineering controls**

**Remark**

Emergency eye showers and rescue showers should be available in the immediate vicinity of any potential exposure be available.

**Personal protection equipment**

**Eye/face protection**

safety goggles

**Hand protection**

Gloves with long cuffs

**Body protection:**

Protective clothing

**Respiratory protection**

Respiratory protection necessary at:  
high concentrations

**Environmental exposure controls**

**Technical measures to prevent exposure**

Take appropriate protective measures to limit or prevent emissions.

**Remark**

Avoid release into the environment.

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**SECTION 9: Physical and chemical properties**

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

**Physical state**

Paste

**Colour**

various, depending on coloration

**Odour**

odourless

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point 75 °C		
Boiling point or initial boiling point and boiling range	> 204.4 °C		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	> 121.1 °C		
Auto-ignition temperature	not determined		

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	Value	Method	Source, Remark
Decomposition temperature	not determined		
pH	6- 8		CAS No.123-91-1 1,4-dioxane
pH	11.4		CAS No.124-30-1 octadecylamine
pH	13.1- 13.4		CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate
Viscosity	Kinematic viscosity 8.9 (60°C)		CAS No.124-30-1 octadecylamine
Viscosity	Kinematic viscosity 3.47 (0°C)	ASTM D445	CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol
Viscosity	Kinematic viscosity 1.27 (20°C)	OECD 114	CAS No.123-91-1 1,4-dioxane
Solubility(ies)	Water solubility		practically insoluble
Partition coefficient n-octanol/water (log value)	7.71		CAS No.124-30-1 octadecylamine
Partition coefficient n-octanol/water (log value)	4.17 (37°C)		CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol
Partition coefficient n-octanol/water (log value)	-0.42		CAS No.123-91-1 1,4-dioxane
Partition coefficient n-octanol/water (log value)	5.47		CAS No.68526-94-3 Alcohols, C12-20, ethoxylated
Partition coefficient n-octanol/water (log value)	1.02		CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate
Vapour pressure	not determined		
Density and/or relative density	Relative density approx. 1		
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information****Other safety characteristics**

	Value	Method	Source, Remark
Surface tension	51.3 mN/m (20°C) Concentration 1 g/L	OECD 115	CAS No.124-30-1 octadecylamine
Surface tension	37 mN/m (20°C)		CAS No.123-91-1 1,4-dioxane



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**SECTION 10: Stability and reactivity****10.1 Reactivity**

This material is considered to be non-reactive under normal use conditions.

**10.2 Chemical stability**

stable

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

Direct sunlight.  
High temperatures, ignition sources, incompatible materials

**10.5 Incompatible materials**

Alkali (lye), concentrated  
Oxidising agent, strong  
Plastics may be corroded.

**10.6 Hazardous decomposition products**

Carbon monoxide  
Carbon dioxide  
Hydrocarbons

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No. 124-30-1 octadecylamine LD50: 1020 mg/kg Species Rat		
	CAS No. 128-37-0 2,6-di- tert-butyl-p-cresol LD50: > 6000 mg/kg Species Rat	OECD 401	
	CAS No. 123-91-1 1,4- dioxane LD50: approx. 5150 mg/kg Species Rat	OECD 401	
	CAS No. 7664-38-2 phosphoric acid LD50: 3500 mg/kg		
Acute dermal toxicity	CAS No. 124-30-1 octadecylamine LD50: > 2000 mg/kg Species Rat	OECD 402	



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	Effective dose	Method, Evaluation	Source, Remark
	CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol LD50: > 2000 mg/kg Species Rat	OECD 402	
	CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol LD50: > 2000 mg/kg Species Rabbit		
	CAS No. 123-91-1 1,4-dioxane LD50: 2100 mg/kg		
	CAS No. 7664-38-2 phosphoric acid LD50: 2740 mg/kg		
Acute inhalation toxicity	CAS No. 124-30-1 octadecylamine Acute inhalation toxicity (gas) LC50: > 0.1 mg/L Species Rat Exposure time 1 h	OECD 403	
	CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol Acute inhalation toxicity (dust/mist) LC50: > 2 mg/L		
	Acute inhalation toxicity (vapour) LC50: > 155 mg/L Species Rat Exposure time 1 h	OECD 403	

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.		

**Assessment/classification**

Causes skin irritation.

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.		

**Assessment/classification**

Causes serious eye damage.

**Sensitisation to the respiratory tract**

**Assessment/classification**

No data available

**Skin sensitisation**



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**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
No data available			

**Germ cell mutagenicity**

not determined

**Carcinogenicity**

**Assessment/classification**

This information is not available.

**Reproductive toxicity**

**Assessment/classification**

This information is not available.

**Overall Assessment on CMR properties**

The mixture is not classified as mutagenic / not classified as carcinogenic / not classified as toxic for reproduction

**STOT-single exposure**

**STOT SE 1 and 2**

**Other information**

May cause drowsiness or dizziness.  
 May cause respiratory irritation.

**STOT SE 3**

**Irritation to respiratory tract**

**Assessment/classification**

May cause respiratory irritation.

**Narcotic effects**

**Assessment/classification**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

**Animal data**

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	CAS No.124-30-1 octadecylamine NOAEL(C): 3.25 mg/kg Species Rat Exposure duration 90 d				

**Other information**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

**Remark**

No data available

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**11.2 Information on other hazards****Other information**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.124-30-1 octadecylamine LC50: 4.21 mg/L Species Danio rerio (zebrafish)		
	CAS No.124-30-1 octadecylamine LC50: 1- 10 mg/L		
	CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate LC50: 1227.712 mg/L		
	CAS No. 128-37-0 2,6-di- tert-butyl-p-cresol LC50: 0.199 mg/L Test duration 96 h		
	CAS No.123-91-1 1,4- dioxane LC50: 10800 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate LC50: 1227.712 mg/L		
Chronic (long-term) fish toxicity	CAS No.7664-38-2 phosphoric acid LC50: 75.1 mg/L		
	CAS No.123-91-1 1,4- dioxane NOEC 145 mg/L Species Pimephales promelas (fathead minnow) Test duration 32 d		
Acute (short-term) toxicity to crustacea	CAS No.124-30-1 octadecylamine EC50 0.32 mg/L Species Daphnia magna (Big water flea)		
	CAS No.124-30-1 octadecylamine EC50 1.7 mg/L		
	CAS No. 128-37-0 2,6-di- tert-butyl-p-cresol EC50 0.48 mg/L Species Daphnia sp. Test duration 48 h	OECD 202	

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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.123-91-1 1,4-dioxane EC50 1000 mg/L Species Daphnia sp. Test duration 48 h	OECD 202	
	CAS No.7664-38-2 phosphoric acid EC50 > 100 mg/L Species Daphnia magna (Big water flea)		
	CAS No.124-30-1 octadecylamine LOEC: 0.032 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.124-30-1 octadecylamine NOEC 0.013 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
	CAS No.123-91-1 1,4-dioxane NOEC 1000 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
	CAS No.124-30-1 octadecylamine EC50 0.46 mg/L Species Desmodesmus subspicatus Test duration 72 h		
	CAS No.124-30-1 octadecylamine EC50 0.38 mg/L Species Desmodesmus subspicatus Test duration 72 h		
	CAS No.124-30-1 octadecylamine ErC50: 0.12 mg/L Species Desmodesmus subspicatus	OECD 201	
CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate EC50 185.62 mg/L Test duration 96 h			
CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol EC50 > 0.24 mg/L Test duration 72 h	OECD 201		
CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol ErC50: 0.758 mg/L Species Selenastrum capricornutum Test duration 96 h			

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	Effective dose	Method, Evaluation	Source, Remark
	CAS No.123-91-1 1,4-dioxane EC50 1000 mg/L Species Pseudokirchnerella subcapitata Test duration 72 h	OECD 201	
	CAS No.39464-70-5 Polyoxyethylene phenyl ether phosphate EC50 185.62 mg/L Test duration 96 h		
	CAS No.7664-38-2 phosphoric acid EC50 > 100 mg/L Species Desmodesmus subspicatus Test duration 72 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol ErC50: 6 mg/L Test duration 72 d		
Toxicity to microorganisms	not determined		

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation			CAS No.124-30-1 octadecylamine
			Readily biodegradable (to OECD criteria)
Biodegradation			CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol
			Not readily biodegradable in water
Biodegradation			CAS No.123-91-1 1,4-dioxane
			Not readily biodegradable in water

**12.3 Bioaccumulative potential**

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) > 500		CAS No.124-30-1 octadecylamine
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) < 500		CAS No.123-91-1 1,4-dioxane

**Assessment/classification**

No data available

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**12.4 Mobility in soil****Assessment/classification**

1,4-Dioxan (123-91-1) highly mobile in soil

1-Octadecanamin (124-30-1) adsorbs into the soil

**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 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects****Additional ecotoxicological information**

	Value	Method	Source, Remark
Theoretical oxygen demand (ThOD):	2.977 g/g		CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol
Chemical oxygen demand (COD)	2.27 mgO <sub>2</sub> /g		CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol
Biochemical oxygen demand	0.51 mgO <sub>2</sub> /g		CAS No. 128-37-0 2,6-di-tert-butyl-p-cresol

**Additional information**

An environmental hazard cannot be ruled out in the event of unprofessional handling or disposal

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Dispose of according to official regulations.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 3077	UN 3077	UN 3077
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
<b>14.3 Transport hazard class(es)</b>	9	9	9
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS

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**14.6 Special precautions for user**

This product is subject to the "Limited Quantity" exception. Each package meets the packaging requirements and must not exceed 5 kg (11 pounds) gross weight and is exempt from the labeling requirements for land shipments per US DOT Hazmat Shipping Requirements 49 CFR 173.155(b), Canadian TDG LQ requirements and European ADR 3.4 Special Provision SP375. The product is also exempt from the labeling requirements for air transport according to IATA Dangerous Goods Regulation 4.4.Special Provision A197 and for water transport according to IMDG Code 2.10.2.7.

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**Land transport (ADR/RID)**

UN number or ID number	UN 3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9
Hazard label(s)	9
Classification code	M7
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 kg
Special provisions	274, 335, 375, 601
Tunnel restriction code	-

**Sea transport (IMDG)**

UN number or ID number	UN 3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 kg
Marine pollutant	No
EmS	F-A, S-F

**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number	UN 3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Restrictions of occupation**

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.





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**Other regulations (EU)**

**To follow:**

Contains no substance listed in REACH Annex XIV.

**15.2 Chemical Safety Assessment**

**National regulations**

Chemical safety assessments for substances in this mixture were not carried out.

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**SECTION 16: Other information**

**Indication of changes**

\* Data changed compared with the previous version

**Abbreviations and acronyms**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE: Acute Toxicity Estimate  
DNEL: derived no-effect level  
EC50: Effective Concentration 50%  
IMDG: International Maritime Dangerous Goods  
LC50: Lethal (fatal) Concentration 50%  
IATA: International Air Transport Association  
NOAEL: No Observed Adverse Effect Level  
NOAEC: no observed adverse effect concentration  
PBT: persistent and bioaccumulative and toxic  
RID: Dangerous goods regulations for transport by rail  
CAS: Chemical Abstracts Service  
vPvB: very persistent, very bioaccumulative

**Key literature references and sources for data**

European Chemicals Agency, <http://echa.europa.eu/>.  
Datasheets of the manufacturer

**Additional information**

National and local regulations concerning chemicals shall be observed.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.

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.

**Relevant H- and EUH-phrases (Number and full text)**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.