

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

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

1.1. Product identifier

Ceramic-Polymer STP-ep-hv Part B

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

Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Ceramic Polymer GmbH	
Street:	Daimlerring 9	
Place:	DE-32289 Rödinghausen	
Telephone:	+49(0) 52 23 / 9 62 76-0	Telefax: +49(0) 52 23 / 9 62 76-17
e-mail:	info@ceramic-polymer.de	
Internet:	www.ceramic-polymer.de	
Responsible Department:	info@ceramic-polymer.de	

1.4. Emergency telephone

number: +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamin

m-phenylenebis(methylamine)

3-aminopropyltriethoxysilane

Signal word: Danger

Pictograms:



Hazard statements

H302+H332

Harmful if swallowed or if inhaled.

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P273 Avoid release to the environment.
 P270 Do not eat, drink or smoke when using this product.
 P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous Components

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
100-51-6	benzyl alcohol	25-33 %
	202-859-9	603-057-00-5
		01-2119492630-38
	Acute Tox. 4, Acute Tox. 4; H302 H332	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	16-23 %
	220-666-8	612-067-00-9
		01-2119514687-32
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H312 H314 H317 H412	
1477-55-0	m-phenylenebis(methylamine)	12-22 %
	216-032-5	01-2119480150-50
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H332 H314 H317 H412 EUH071	
135470-04-1	1,3-Benzenedimethanamine, reaction products with epichlorohydrin	5-10 %
	Aquatic Chronic 2; H411	
919-30-2	3-aminopropyltriethoxysilane	0,5-2 %
	213-048-4	612-108-00-0
		01-2119480479-24
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H302 H314 H317	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

After contact with skin

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

Do not wash with: Solvents/Thinner

After contact with eyes

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

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

After contact with skin, wash immediately with plenty of Lutrol.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

Provide adequate ventilation.

Personal protection equipment: see section 8

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13



Ceramic Polymer Adhesive – Part B

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Advice on storage compatibility

Keep away from:

Food and feedingstuffs

Oxidising agent

Further information on storage conditions

Keep away from:

Frost

Heat

Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
100-51-6	benzyl alcohol			
Worker DNEL, long-term		inhalation	systemic	22 mg/m ³
Worker DNEL, acute		inhalation	systemic	110 mg/m ³
Worker DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	5,4 mg/m ³
Consumer DNEL, acute		inhalation	systemic	27 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin			
Worker DNEL, long-term		inhalation	local	0,073 mg/m ³
Worker DNEL, acute		inhalation	local	0,073 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,526 mg/kg bw/day
1477-55-0	m-phenylenebis(methylamine)			
Worker DNEL, long-term		dermal	systemic	0,33 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	0,2 mg/m ³
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m ³
919-30-2	3-aminopropyltriethoxysilane			
Consumer DNEL, acute		dermal	systemic	5 mg/kg bw/day

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		5,27 mg/kg
Marine sediment		0,527 mg/kg
Micro-organisms in sewage treatment plants (STP)		39 mg/l
Soil		0,456 mg/kg
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
Freshwater sediment		5,784 mg/kg
Marine sediment		0,578 mg/kg
Soil		1,121 mg/kg
1477-55-0	m-phenylenebis(methylamine)	
Freshwater		0,094 mg/l
Marine water		0,009 mg/l
Freshwater sediment		0,43 mg/kg
Marine sediment		0,043 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,045 mg/kg
919-30-2	3-aminopropyltriethoxysilane	
Freshwater		0,33 mg/l
Marine water		0,033 mg/l
Freshwater sediment		1,2 mg/kg
Marine sediment		0,12 mg/kg
Soil		0,05 mg/kg

8.2. Exposure controls

Appropriate engineering controls

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

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Eye/face protection

Suitable eye protection:
Eye glasses with side protection
goggles

Hand protection

Suitable gloves type:
NBR (Nitrile rubber) DIN EN 374,
Butyl caoutchouc (butyl rubber) DIN EN 374
Wear cotton undermitten if possible.

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

Skin protection

Protective clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device (EN 14387) A-P3

Self-contained respirator (breathing apparatus) (DIN EN 133)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	like amines

pH-Value:	~11	Test method
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Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	>65 °C

Flammability

Solid:	not determined
Gas:	not determined

Explosive properties

No information available.

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
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Oxidizing properties

No information available.

Vapour pressure: (at 25 °C)	not determined
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Density (at 23 °C):	not determined
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Water solubility:	partially soluble
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Solubility in other solvents

No information available.

Partition coefficient:	not determined
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Viscosity / dynamic:	not determined
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Vapour density:	not determined
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Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

Evaporation rate: not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

ATEmix calculated

ATE (oral) 1917,0 mg/kg; ATE (inhalative aerosol) 3,297 mg/l

CAS No	Chemical name	Exposure route	Dose	Species	Source
100-51-6	benzyl alcohol	oral	LD50 1620 mg/kg	Rat	
		inhalative vapour	ATE 11 mg/l		
		inhalative (4 h) aerosol	LC50 >4178 mg/l	Rat	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	oral	LD50 1030 mg/kg	Rat	
		dermal	ATE 1100 mg/kg		
1477-55-0	m-phenylenebis(methylamine)	oral	LD50 1180 mg/kg	Mouse	OECD Guideline 401
		dermal	LD50 >3100 mg/kg	Rat	TK 11813 was applied
		inhalative vapour	ATE 11 mg/l		
		inhalative (4 h) aerosol	LC50 1,34 mg/l	Rat	
919-30-2	3-aminopropyltriethoxysilane	oral	LD50 1780 mg/kg	Rat	RTECS
		dermal	LD50 3800 mg/kg	Rabbit	RTECS

Irritation and corrosivity

Causes severe skin burns and eye damage.

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamin; m-phenylenebis(methylamine); 3-aminopropyltriethoxysilane)

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.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name			[h] [d]	Species	Source
100-51-6	benzyl alcohol					
	Acute fish toxicity	LC50	460 mg/l	96 h		
	Acute algae toxicity	ErC50	770 mg/l	72 h		
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC	51 mg/l	3 d		
	Crustacea toxicity	NOEC	310 mg/l	21 d		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin					
	Acute fish toxicity	LC50	110 mg/l	96 h		
	Acute algae toxicity	ErC50	37 mg/l	72 h		
1477-55-0	m-phenylenebis(methylamine)					
	Acute fish toxicity	LC50	87,6 mg/l	96 h	Oryzias latipes (Ricefish)	
	Acute algae toxicity	ErC50	20,3 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	15,2 mg/l	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC	10,5 mg/l	3 d	Selenastrum capricornutum	
	Crustacea toxicity	NOEC	4,7 mg/l	21 d	Daphnia magna (Big water flea)	
919-30-2	3-aminopropyltriethoxysilane					
	Acute algae toxicity	ErC50	603 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	331 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

CAS No	Chemical name			d	Source
	Method	Value			
	Evaluation				
100-51-6	benzyl alcohol				
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	95 - 97%		21	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin				
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	8 %		28	
1477-55-0	m-phenylenebis(methylamine)				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	49 %		28	

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-51-6	benzyl alcohol	1,1
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamin	0,99
1477-55-0	m-phenylenebis(methylamine)	0,18
919-30-2	3-aminopropyltriethoxysilane	0,31

BCF

CAS No	Chemical name	BCF	Species	Source
100-51-6	benzyl alcohol	1		
1477-55-0	m-phenylenebis(methylamine)	<0,3		

12.4. Mobility in soil

No information 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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)

E1
E2

Inland waterways transport (ADN)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L

Other applicable information (inland waterways transport)

E1
E2

Marine transport (IMDG)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
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
Segregation group: 18 - alkalis

Other applicable information (marine transport)

E1
E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine, m-phenylenebis(methylamine))
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
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

Other applicable information (air transport)

E1
Passenger-LQ: Y964
E2
Passenger-LQ: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: Regulatory information

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 Revision Date: 13.04.2016 Revision No.: 2,02 (Replaces Version: 2,01) Trade Name: Ceramic-Polymer STP-EP-HV

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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):	2 - water contaminating

15.2. Chemical safety assessment

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

benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamin
m-phenylenebis(methylamine)
3-aminopropyltriethoxysilane

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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



Ceramic Polymer Adhesive – Part B

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According to Regulation (EC) No 1907/2006

Print Date: 03.05.2017 **Revision Date:** 13.04.2016 **Revision No.:** 2,02 (Replaces Version: 2,01) **Trade Name:** Ceramic-Polymer STP-EP-HV

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.)