# SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	PC
Registration number	-
Synonyms	POLYCARBONATE
Issue date	21-August-2019
Version number	01
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	3D printer filament
Uses advised against	None known.
1.3. Details of the supplier of the	safety data sheet
Supplier	
Company name	eMotion Tech
Adresse	185 avenue des États-Unis, 31200 Toulouse, France
Telephone	+33 (0)5 82 95 26 62 (Office hours Mo Fr. 9:00 - 12:00, 14:00 - 17:30)
Contact person	Product Compliance
e-mail	contact@emotion-tech.com
1.4. Emergency telephone number	+33 (0)1 40 05 48 48
	National Poison Information Center Paris, France

## **SECTION 2: Hazards identification**

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Not available.

## 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

None.
None.
The mixture does not meet the criteria for classification.
Not available.
Not available.
Not available.
Not available.
None.
Not a PBT or vPvB substance or mixture.

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

#### 3.2. Mixtures

General information					
Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
polycarbonate	90 - 100	24936-68-3	-	-	
		-			

Classification:

Chemical name			REACH Registration I		Notes
Bisphenol-A	< 0,1	80-05-7 201-245-8	-	604-030-00-0	#
	kin Sens. 1;H317, Eye Chronic 2;H411	Dam. 1;H318, STC	0T SE 3;H335, Repr. 1B;I	H360F, Aquatic	
Other components below re levels	portable < 1				
List of abbreviations and sym #: This substance has beer	-		(s).		
Composition comments	•	•	played in section 16.		
SECTION 4: First aid me	asures				
General information	Ensure that medica protect themselves		are of the material(s) invo	olved, and take preca	utions to
4.1. Description of first aid me	asures				
Inhalation			ict. If exposed to excessive f cough or other symptom		umes, remove
Skin contact		e a physician for rei	cool molten material adh noval of adhering materia		
Eye contact	Not likely, due to th 15 minutes and see		ict. If hot product contacts n immediately.	s eye, flush with wate	r for at least
Ingestion	Not likely, due to th	e form of the produ	ict.		
4.2. Most important symptom and effects, both acute and delayed	Exposure may cause	se temporary irritat	on, redness, or discomfo	rt.	
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatica	ally.			
<b>SECTION 5: Firefighting</b>	measures				
General fire hazards	No unusual fire or e	explosion hazards i	noted.		
5.1. Extinguishing media					
Suitable extinguishing media	Water fog. Foam. I	Dry chemical powde	er. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water je	et as an extinguishe	er, as this will spread the t	fire.	
5.2. Special hazards arising from the substance or mixture	During fire, gases ł	nazardous to health	may be formed.		
5.3. Advice for firefighters Special protective equipment for firefighters		athing apparatus ar	nd full protective clothing	must be worn in case	of fire.
Special fire fighting procedures	Move containers fro	om fire area if you o	can do so without risk.		
Specific methods	Use standard firefig	ghting procedures a	and consider the hazards	of other involved mat	erials.
SECTION 6: Accidental	elease measures				
6.1. Personal precautions, pro	tective equipment and	d emergency proc	edures		
For non-emergency personnel			or personal protection, se	ee section 8 of the SD	S.

For non-emergency personnel	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

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

7.1. Precautions for safe	Observe good industrial hygiene practices.
handling	

7.3. Specific end use(s)

Not available.

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

#### 8.1. Control parameters

#### **Occupational exposure limits**

Components	Туре	Value	Form	
Bisphenol-A (CAS 80-05-7)	Ceiling	5 mg/m3	Inhalable fraction.	
	MAK	2 mg/m3	Inhalable fraction.	
Belgium. Exposure Limit Values. Components	Туре	Value		
Bisphenol-A (CAS 80-05-7)	TWA	2 mg/m3		
Bulgaria. OELs. Regulation No 13 o	n protection of workers agai	nst risks of exposure to che	mical agents at work	
Components	Туре	Value	Form	
Bisphenol-A (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.	
Croatia. Dangerous Substance Expo Components	osure Limit Values in the Wo Type	orkplace (ELVs), Annexes 1 a Value	nd 2, Narodne Novine, 13/0 Form	
Bisphenol-A (CAS 80-05-7)	MAC	2 mg/m3	Total dust.	
Czech Republic. OELs. Government	Decree 361			
Components	Туре	Value	Form	
Bisphenol-A (CAS 80-05-7)	Ceiling	5 mg/m3	Dust/aerosol, inhalable.	
	TWA	2 mg/m3	Dust/aerosol, inhalable.	
Denmark. Exposure Limit Values			_	
Components	Туре	Value	Form	
-	<b>Type</b> TLV	Value 2 mg/m3	Form Particulate.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001)	TLV	2 mg/m3	Particulate.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components	TLV ure Limits of Hazardous Sub	2 mg/m3 ostances. (Annex of Regulati	Particulate.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7)	TLV ure Limits of Hazardous Sub Type TWA	2 mg/m3 ostances. (Annex of Regulati Value	Particulate. on No. 293 of 18 Septembe Form	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits	TLV ure Limits of Hazardous Sub Type TWA	2 mg/m3 ostances. (Annex of Regulati Value	Particulate. on No. 293 of 18 Septembe Form	
Components Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7)	TLV ure Limits of Hazardous Sub Type TWA	2 mg/m3 ostances. (Annex of Regulati Value 2 mg/m3	Particulate. on No. 293 of 18 Septembe Form	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI	TLV ure Limits of Hazardous Sub Type TWA S Type TWA	2 mg/m3 ostances. (Annex of Regulati Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I	Particulate. on No. 293 of 18 Septembe Form Respirable fraction.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expose 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components	TLV ure Limits of Hazardous Sub Type TWA S Type TWA EP) for Occupational Exposu	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value	Particulate. on No. 293 of 18 Septembe Form Respirable fraction.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7)	TLV ure Limits of Hazardous Sub Type TWA S TWA EP) for Occupational Exposu Type	2 mg/m3 ostances. (Annex of Regulati Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I	Particulate. on No. 293 of 18 Septembe Form Respirable fraction. NRS ED 984 Form	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7) Regulatory status: Regulatory Germany. DFG MAK List (advisory C	TLV ure Limits of Hazardous Sub Type TWA S TWA EP) for Occupational Exposu Type VME VME	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value 10 mg/m3	Particulate. on No. 293 of 18 Septembe Form Respirable fraction.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expose 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7) Regulatory status: Regulatory Germany. DFG MAK List (advisory C in the Work Area (DFG)	TLV ure Limits of Hazardous Sub Type TWA S TWA EP) for Occupational Exposu Type VME VME	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value 10 mg/m3	Particulate. on No. 293 of 18 Septembe Form Respirable fraction.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expose 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7) Regulatory status: Regulatory Germany. DFG MAK List (advisory C in the Work Area (DFG) Components	TLV ure Limits of Hazardous Sub Type TWA S TWA EP) for Occupational Exposu Type VME binding (VRC) DELs). Commission for the In	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value 10 mg/m3 nvestigation of Health Hazar	Particulate. fon No. 293 of 18 Septembe Form Respirable fraction. NRS ED 984 Form Inhalable dust. ds of Chemical Compounds	
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Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expos 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7)	TLV ure Limits of Hazardous Sub Type TWA S Type TWA EP) for Occupational Exposu Type VME binding (VRC) DELs). Commission for the la Type TWA the Ambient Air at the Wor	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value 10 mg/m3 nvestigation of Health Hazar Value 5 mg/m3 kplace	Particulate. on No. 293 of 18 Septembe Form Respirable fraction. NRS ED 984 Form Inhalable dust. ds of Chemical Compounds Form Inhalable fraction.	
Bisphenol-A (CAS 80-05-7) Estonia. OELs. Occupational Expose 2001) Components Bisphenol-A (CAS 80-05-7) Finland. Workplace Exposure Limits Components Bisphenol-A (CAS 80-05-7) France. Threshold Limit Values (VLI Components Bisphenol-A (CAS 80-05-7) Regulatory status: Regulatory Germany. DFG MAK List (advisory C in the Work Area (DFG) Components Bisphenol-A (CAS 80-05-7) Germany. TRGS 900, Limit Values in Components Bisphenol-A (CAS 80-05-7)	TLV ure Limits of Hazardous Sub Type TWA S Type TWA EP) for Occupational Expose Type VME binding (VRC) DELs). Commission for the In Type TWA a the Ambient Air at the Wor Type AGW	2 mg/m3 postances. (Annex of Regulation Value 2 mg/m3 Value 2 mg/m3 ure to Chemicals in France, I Value 10 mg/m3 nvestigation of Health Hazar Value 5 mg/m3 kplace Value	Particulate. on No. 293 of 18 Septembe Form Respirable fraction. NRS ED 984 Form Inhalable dust. ds of Chemical Compounds Form Inhalable fraction. Form	
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	Inhalable fraction.
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	Inhalable dust.
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rements Value	Form
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n the maximum pern f Laws 2014, item 81 Value	nissible concentrations and 7 Form
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h in work with chem Value	nical agents Form
2 mg/m3	Inhalable fraction.
-	re to chemicals while working
-	Form
•	-

Components		Туре	Value	
Bisphenol-A (CAS 80-05-7)		TWA	2 mg/m3	
Sweden. OELs. Work Envi Components	ronment Autho	ority (AV), Occupation Type	al Exposure Limit Values (AFS Value	S 2015:7) Form
Bisphenol-A (CAS 80-05-7)		TWA	2 mg/m3	Inhalable dust.
Switzerland. SUVA Grenzv	verte am Arbei	tsplatz		
Components		Туре	Value	Form
Bisphenol-A (CAS 80-05-7)		STEL	5 mg/m3	Inhalable fraction.
		TWA	5 mg/m3	Inhalable fraction.
UK. EH40 Workplace Expo Components	sure Limits (N	/ELs) Type	Value	
Bisphenol-A (CAS 80-05-7)		TWA	2 mg/m3	
	imit Values in I	Directives 91/322/EEC Type	, 2000/39/EC, 2006/15/EC, 2009 Value	9/161/EU Form
Bisphenol-A (CAS 80-05-7)		TWA	2 mg/m3	Inhalable fraction.
ological limit values	No biologica	al exposure limits noted	for the ingredient(s).	
ecommended monitoring ocedures	Follow stand	dard monitoring proced	ures.	
-	Follow stan		ures.	
ocedures erived no effect levels		le.	ures.	
ocedures erived no effect levels NELs) edicted no effect	Not availabl	le.	ures.	
ocedures erived no effect levels NELs) edicted no effect oncentrations (PNECs)	Not availabl Not availabl Good gener applicable, i maintain air	le. ral ventilation should be use process enclosures borne levels below reco	used. Ventilation rates should b , local exhaust ventilation, or oth mmended exposure limits. If ex ls to an acceptable level.	ner engineering controls to
ocedures erived no effect levels NELs) redicted no effect oncentrations (PNECs) 2. Exposure controls opropriate engineering	Not availabl Not availabl Good gener applicable, i maintain air established	le. ral ventilation should be use process enclosures borne levels below reco , maintain airborne level	used. Ventilation rates should b , local exhaust ventilation, or oth mmended exposure limits. If ex ls to an acceptable level.	ner engineering controls to
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## 9.1. Information on basic physical and chemical properties

Solid.
filament
Color depends on product specification
Slight.
Not available.
Not available.
> 135 °C (> 275 °F)

Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 550 °C (> 1022 °F)
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	1,10 - 1,30 g/cm³
SECTION 10: Stability and	I reactivity
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
SECTION 11: Toxicologica	al information
General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of e	xposure
Inhalation	Based on available data, the classification criteria are not met.
Skin contact	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.
11.1. Information on toxicologic	
Acute toxicity	Not known.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met. nance on protection against and preventing risk relating to exposure to carcinogens at work
(as amended) Not listed.	

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.
Other information	This product has no known adverse effect on human health.
SECTION 12: Ecological ir	nformation
12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12 C. Other advarage offecto	No other adverse environmental effects (o.g. exercised epileties, photoshemical exercises

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

#### RID

14.1. - 14.6.: Not regulated as dangerous goods.

#### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

#### ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

## IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

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

**EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Not applicable.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/201	2 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.	
	2 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.	CAnney II Dellutent Deleges and Transfer Devistry, as smended
Not listed.	6 Annex II Pollutant Release and Transfer Registry, as amended
	06, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.	
Authorisations	
Regulation (EC) No. 1907/20	06, REACH Annex XIV Substances subject to authorization, as amended
Not listed.	
Restrictions on use	
Regulation (EC) No. 1907/20	06, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.	
	protection of workers from the risks related to exposure to carcinogens and mutagens at
work, as amended.	
Not listed.	
Other EU regulations	
-	or accident hazards involving dangerous substances, as amended
Not listed.	
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety	No Chemical Safety Assessment has been carried out.
assessment	
<b>SECTION 16: Other inform</b>	ation
List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements	
not written out in full under Sections 2 to 15	H217 May aguse an allerais akin reaction
	H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
	H335 May cause respiratory irritation.
	H360F May damage fertility.
	H411 Toxic to aquatic life with long lasting effects.

Revision information Training information Disclaimer

Follow training instructions when handling this material. This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.

None.