# PVA-FILAMENT SAFETY DATA SHEET



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

#### 1.1 Product identifier

Trade name or designation of the

PVA

mixture

Registration number -

Synonyms None

Issue date 16.05.2019

Version number 01

1.2 Relevant identified uses of the 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 REDLINE FILAMENT GmbH

Adress Pleißeweg 15, 41469 Neuss, Germany

Phone +49(0)177 62 77 918

Contact person M. Eng. Robert Banse

Emergency phone +49(0)30 18 41 20

number

#### 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

Hazard pictograms None Signal word None

Hazard statements The mixture does not meet the criteria for classification

Precautionary statements

Prevention Not available
Response Not available
Storage Not available
Disposal Not available

Supplemental label

information

None

2.3 Other hazards Not a PBT or vPvB substance or mixture

#### Section 3: Composition/information on ingredients

#### 3.1 Mixtures

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyvinyl alcohol compound	80 - < 90	Proprietary	-	-	
methanol (impurity)	< 1	67-56-1		603-001-00-X	#
		200-659-6			
Classification:	Flam. Liq. 2; STOT SE 1;F	•	3;H301, Acute Tox. 3	;H311, Acute Tox. 3	3;H331,
Other components below reportable levels	10 - < 20				
Composition comments	The full text	for all H-stateme	ents is displayed in s	ection 16	

#### Section 4: First aid measures

General information Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

4.1 Description of first aid measures

Inhalation Not likely, due to the form of the product. If exposed to excessive

levels of dusts or fumes, remove to fresh air and get medical

attention if cough or other symptoms develop.

Skin contact If burned by contact with hot material, cool molten material

adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Do not peel polymer from the skin.

Eye contact Not likely, due to the form of the product. If hot product contacts

eye, flush with water for at least 15 minutes and seek medical

attention immediately.

Ingestion Not likely, due to the form of the product.

4.2 Most important symptoms

and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Section 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

media

5.2 Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Self-contained breathing apparatus and full protective clothing

must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of

other involved materials.

#### Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

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

handling

Avoid prolonged exposure. Observe good industrial hygiene

practices.

7.2 Conditions for safe storage, including any

incompatibilities

Store in tightly closed container. Store away from incompatible

materials (see Section 10 of the SDS).

7.3 Specific end use(s) Not available.

#### Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

#### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

	Components	Туре	Value
	methanol (impurity) (CAS 67-56-1)	MAK	260 mg/m <sup>3</sup>
			200 ppm
		STEL	1040 mg/m <sup>3</sup>
			800 ppm
Bel	gium. Exposure Limit Values.		
-	Components	Туре	Value

methanol (impurity) (CAS 67-56-1)	STEL	333 mg/m <sup>3</sup>
		250 ppm
	TWA	266 mg/m³
		200 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³
		200 ppm

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

_(	Components	Type	Value
r	methanol (impurity) (CAS 67-56-1)	MAC	260 mg/m <sup>3</sup>
			200 ppm
Czec	h Republic. OELs. Government Decree 361		
	Components	Туре	Value
r	methanol (impurity) (CAS 67-56-1)	Ceiling	1000 mg/m3
		TWA	250 mg/m <sup>3</sup>
Denn	nark. Exposure Limit Values		
_ (	Components	Type	Value
r	methanol (impurity) (CAS 67-56-1)	TLV	260 mg/m <sup>3</sup>

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Type

200 ppm

Value

	methanol (impurity) (CAS 67-56-1)	STEL	350 mg/m <sup>3</sup>
			250 ppm
		TWA	250 mg/m <sup>3</sup>
			200 ppm
Fin	land. Workplace Exposure Limits		
	Components	Туре	Value
	Components methanol (impurity) (CAS 67-56-1)	Type STEL	Value 330 mg/m³
	· ·		
	<del></del>		330 mg/m <sup>3</sup>

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components		Type	Value	
methanol (impurity) (CAS	67-56-1)	VLE	1300 mg/m³	
Regulatory status:	Indicative lim	nit (VL)	1000 ppm	
Regulatory status:	Indicative lim	nit (VL) VME	260 mg/m <sup>3</sup>	
Regulatory status:	Regulatory bi	inding (VRC)	200 ppm	
Regulatory status:	Regulatory bi	inding (VRC)	200 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components

Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	130 mg/m³			
		100 ppm			
Germany. TRGS 900, Limit Values in the Aml	bient Air at th	e Workplace			
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	AGW	270 mg/m³			
		200 ppm			
Greece. OELs (Decree No. 90/1999, as amend	ded)				
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	STEL	325 mg/m³			
		250 ppm			
	TWA	260 mg/m³			
		200 ppm			
Hungary. OELs. Joint Decree on Chemical Safe	ety of Workpl	aces			
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>			
Iceland. OELs. Regulation 154/1999 on occup	ational expos	ure limits			
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
Ireland. Occupational Exposure Limits					
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
Italy. Occupational Exposure Limits					
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
Latvia. OELs. Occupational exposure limit va	lues of chemi				
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
Lithuania. OELs. Limit Values for Chemical S		·			
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
Luxembourg. Binding Occupational exposure	limit values (	•			
Components	Type	Value			
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³			
		200 ppm			
	Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)				
Components	Туре	Value			

methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm
Netherlands. OELs (binding)		
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	133 mg/m <sup>3</sup>
Norway. Administrative Norms for Contamina	ants in the Wo	rkplace
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TLV	130 mg/m³
		100 ppm
Ordinance of the Minister of Labour and Social concentrations and intensities of harmful healitem 817		
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	300 mg/m <sup>3</sup>
		$100 \mathrm{mg/m^3}$
Portugal. OELs. Decree-Law n. 290/2001 (Jo	urnal of the Re	epublic - 1 Series A, n.266)
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³
		200 ppm
Portugal. VLEs. Norm on occupational expos	ure to chemic	al agents (NP 1796)
methanol (impurity) (CAS 67-56-1)	STEL	250 mg/m³
	TWA	200 ppm
Romania. OELs. Protection of workers from e	xposure to ch	emical agents at the workplace
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³
		200 ppm
Slovakia. OELs. Regulation No. 300/2007 co	ncerning prote	ection of health in work with chemical agents
Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		3
		200 ppm
Slovenia. OELs. Regulations concerning prote while working (Official Gazette of the Republ		200 ppm ers against risks due to exposure to chemicals
		200 ppm ers against risks due to exposure to chemicals
while working (Official Gazette of the Republ	lic of Slovenia	200 ppm ers against risks due to exposure to chemicals )
while working (Official Gazette of the Republ Components	lic of Slovenia Type	200 ppm ers against risks due to exposure to chemicals ) Value
while working (Official Gazette of the Republ Components	lic of Slovenia Type	200 ppm ers against risks due to exposure to chemicals ) Value 260 mg/m³
while working (Official Gazette of the Republ Components methanol (impurity) (CAS 67-56-1)	lic of Slovenia Type	200 ppm ers against risks due to exposure to chemicals ) Value 260 mg/m³
while working (Official Gazette of the Republic Components methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits	lic of Slovenia Type TWA	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm
while working (Official Gazette of the Republic Components methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits Components	lic of Slovenia Type TWA Type	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm  Value
while working (Official Gazette of the Republic Components methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits Components methanol (impurity) (CAS 67-56-1)	lic of Slovenia Type TWA Type TWA	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm  Value  266 mg/m³  200 ppm
while working (Official Gazette of the Republic Components methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits Components	lic of Slovenia Type TWA Type TWA	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm  Value  266 mg/m³  200 ppm
while working (Official Gazette of the Republic Components  methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits  Components  methanol (impurity) (CAS 67-56-1)  Sweden. OELs. Work Environment Authority	lic of Slovenia Type TWA Type TWA (AV), Occupa	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm  Value  266 mg/m³  200 ppm  tional Exposure Limit Values (AFS 2015:7)
while working (Official Gazette of the Republic Components methanol (impurity) (CAS 67-56-1)  Spain. Occupational Exposure Limits Components methanol (impurity) (CAS 67-56-1)  Sweden. OELs. Work Environment Authority Components	Iic of Slovenia Type TWA Type TWA (AV), Occupa	200 ppm ers against risks due to exposure to chemicals )  Value  260 mg/m³  200 ppm  Value  266 mg/m³  200 ppm  Itional Exposure Limit Values (AFS 2015:7)  Value

#### Switzerland. SUVA Limit values at the workplace

_	Components	Туре	Value
	methanol (impurity) (CAS 67-56-1)	STEL	1040 mg/m³
			800 ppm
		TWA	260 mg/m <sup>3</sup>
			200 ppm
UK.	EH40 Workplace Exposure Limits (WELs)		
_	Components	Туре	Value
	methanol (impurity) (CAS 67-56-1)	STEL	333 mg/m³
			250 ppm
		TWA	266 mg/m³
			200 ppm
	Indicative Exposure Limit Values in Directive 19/161/EU	es 91/322/EEC	, 2000/39/EC, 2006/15/EC,

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m³
		200 ppm

#### Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	7 mg/g	Methanol	Creatinine in urine	*
	24,7 mmol/mol	Methanol	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
	0,47 mmol/mol	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	30 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*
	30 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling Time
methanol (impurity) (CAS 67-56-1)	30 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available

Predicted no effect concentrations (PNECs)

Not available

#### 8.2 Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to

the CEN standards and in discussion with the supplier of the

personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory

equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants

Environmental exposure controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state Solid.

Form filament

Colour Color depends on product specification

Odour Slight.

Odour threshold Not available.

pH Not available.

Melting point/freezing point 150 - 230 °C (302 - 446 °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 explosive 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 520 °C (968 °F)

Decomposition temperature Not available.

Viscosity Not available.

**Explosive properties** Not explosive.

Oxidising properties Not oxidising.

9.2 Other information

Density 1,19 - 1,31 g/cm<sup>3</sup>

#### Section 10: Stability and 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. Avoid temperatures exceeding the decomposition

temperature. Contact with incompatible materials.

10.5 Incompatible materials Strong oxidising agents.

10.6 Hazardous decomposition

products

No hazardous decomposition products are known.

### Section 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause

adverse effects.

Information on likely routes of exposure

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

Acute toxicity Not known.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eve damage/eve Based on available data, the classification criteria are not met.

irritation

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. Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing Not listed.

risk relating to exposure to carcinogens at work (as amended)

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

single exposure

Specific target organ toxicity - 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 information

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.

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

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

#### 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, Not listed. Annex I and II, as amended

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

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

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

Regulation (EU) No. 649/2012 concerning the export and import of dangerous Not listed. chemicals, Annex I, Part 3 as amended

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

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Not listed. Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as Not listed. currently published by ECHA

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to Not listed. authorization, as amended

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to Not listed. exposure to carcinogens and mutagens at work, as amended.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous Not listed. substances, as amended

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 on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in

accordance with Directive 2004/37/EC.

15.2Chemical safety assessment

No Chemical Safety Assessment has been carried out.

#### Section 16: Other information

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 H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

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.