

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

Trade name or designation of the mixture Helios Support
Registration number -
Synonyms None.
Issue date 16-May-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 Formfutura BV
Address Groenestraat 215, 6531 HH Nijmegen, The Netherlands
Telephone +31 (0)85 743 4000 (Office hours Mo. - Fr. 09:00 - 17:00 CET)
Contact person Product Compliance
e-mail product.compliance@formfutura.com

1.4. Emergency telephone number +31 (0)30 274 8888, only for the doctor

National Poison Information Center Utrecht, The Netherlands

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**3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyvinyl alcohol compound	80 - < 90	Proprietary	-	-	

Classification: -



Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
methanol (impurity)	<= 1	67-56-1 200-659-6	-	603-001-00-X	#
Classification:	Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT SE 1;H370				
Styrene	< 0,1	100-42-5 202-851-5	-	601-026-00-0	
Classification:	Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335, Repr. 2;H361d, STOT RE 1;H372, Aquatic Chronic 3;H412				

Other components below reportable levels 10 - < 20

Composition comments The full text for all H-statements is displayed in section 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 media Do not use water jet as an extinguisher, as this will spread the fire.

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 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	Type	Value
methanol (impurity) (CAS 67-56-1)	MAK	260 mg/m ³
		200 ppm
	STEL	1040 mg/m ³ 800 ppm
Styrene (CAS 100-42-5)	MAK	85 mg/m ³
		20 ppm
	STEL	340 mg/m ³ 80 ppm

Belgium. Exposure Limit Values.

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	333 mg/m ³
		250 ppm
	TWA	266 mg/m ³ 200 ppm
Styrene (CAS 100-42-5)	STEL	216 mg/m ³
		100 ppm
	TWA	108 mg/m ³ 25 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/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	215 mg/m ³
	TWA	85 mg/m ³

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

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	MAC	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	MAC	430 mg/m ³
		100 ppm
	STEL	1080 mg/m ³ 250 ppm

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Styrene (CAS 100-42-5)	TWA	210 mg/m ³
		50 ppm



Czech Republic. OELs. Government Decree 361

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	Ceiling	1000 mg/m3
	TWA	250 mg/m3
Styrene (CAS 100-42-5)	Ceiling	400 mg/m3
	TWA	100 mg/m3

Denmark. Exposure Limit Values

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TLV	260 mg/m3
		200 ppm
Styrene (CAS 100-42-5)	Ceiling	105 mg/m3
		25 ppm

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

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
		250 mg/m3
Styrene (CAS 100-42-5)	STEL	200 ppm
		200 mg/m3
	TWA	50 ppm
		90 mg/m3
		20 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	330 mg/m3
		250 ppm
		270 mg/m3
Styrene (CAS 100-42-5)	STEL	200 ppm
		430 mg/m3
	TWA	100 ppm
		86 mg/m3
		20 ppm

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	
		1000 ppm	
	Regulatory status: Indicative limit (VL)	VME	260 mg/m3
		Regulatory binding (VRC)	200 ppm
Styrene (CAS 100-42-5)	VLE	200 mg/m3	
		46,6 ppm	
	Regulatory status: Indicative limit (VL)	VME	100 mg/m3
		Regulatory binding (VRC)	



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

Components	Type	Value
		23,3 ppm

Regulatory status: Indicative limit (VL)

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

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	130 mg/m ³
		100 ppm
Styrene (CAS 100-42-5)	TWA	86 mg/m ³
		20 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	AGW	270 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	AGW	86 mg/m ³
		20 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	325 mg/m ³
		250 ppm
	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	1050 mg/m ³
		250 ppm
	TWA	425 mg/m ³
		100 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
Styrene (CAS 100-42-5)	STEL	50 mg/m ³
	TWA	50 mg/m ³

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	105 mg/m ³
		25 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	170 mg/m ³
		40 ppm
	TWA	85 mg/m ³
		20 ppm



Italy. Occupational Exposure Limits

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	40 ppm
	TWA	20 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	30 mg/m ³
	TWA	10 mg/m ³

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Styrene (CAS 100-42-5)	STEL	200 mg/m ³
		50 ppm
	TWA	90 mg/m ³
		20 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		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	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm

Netherlands. OELs (binding)

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	133 mg/m ³

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TLV	130 mg/m ³
		100 ppm
Styrene (CAS 100-42-5)	TLV	105 mg/m ³
		25 ppm

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	300 mg/m ³
	TWA	100 mg/m ³
Styrene (CAS 100-42-5)	STEL	100 mg/m ³
	TWA	50 mg/m ³



Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 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 exposure to chemical agents (NP 1796)

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Styrene (CAS 100-42-5)	STEL	40 ppm
	TWA	20 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Styrene (CAS 100-42-5)	STEL	150 mg/m3
		35 ppm
	TWA	50 mg/m3
		12 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Styrene (CAS 100-42-5)	STEL	200 mg/m3
		50 ppm
	TWA	90 mg/m3
		20 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Styrene (CAS 100-42-5)	TWA	86 mg/m3
		20 ppm

Spain. Occupational Exposure Limits

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	TWA	266 mg/m3
		200 ppm
Styrene (CAS 100-42-5)	STEL	172 mg/m3
		40 ppm
	TWA	86 mg/m3
		20 ppm

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value
methanol (impurity) (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3



Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value
Styrene (CAS 100-42-5)	STEL	200 ppm
		86 mg/m3
	TWA	20 ppm
		43 mg/m3
		10 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	
methanol (impurity) (CAS 67-56-1)	STEL	1040 mg/m3	
	TWA	800 ppm	
		260 mg/m3	
Styrene (CAS 100-42-5)	STEL	200 ppm	
		170 mg/m3	
	TWA	40 ppm	
		85 mg/m3	
			20 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	
methanol (impurity) (CAS 67-56-1)	STEL	333 mg/m3	
	TWA	250 ppm	
		266 mg/m3	
Styrene (CAS 100-42-5)	STEL	200 ppm	
		1080 mg/m3	
	TWA	250 ppm	
		430 mg/m3	
			100 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

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	*
Styrene (CAS 100-42-5)	20 µg/l	Styrene	Blood	*
	1 g/g	Mandelic acid	Creatinine in urine	*
	240 mg/g	Phenylglyoxylic acid	Creatinine in urine	*
	0,18 mol/mol	Phenylglyoxylic acid	Creatinine in urine	*
	1,66 nmol/l	Styrene	Mixed exhaled air	*
	40 ppm	Styrene	Mixed exhaled air	*
	18 ppm	Styrene	Mixed exhaled air	*



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

Components	Value	Determinant	Specimen	Sampling Time
	0,75 umol/l	Styrene	Mixed exhaled air	*
	0,19 umol/l	Styrene	Blood	*

* - For sampling details, please see the source document.

Czech Republic. Limit Values for Indicators 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/l	Methanol	Urine	*
Styrene (CAS 100-42-5)	300 µmol/mmol	Mandelic acid	Creatinine in urine	*
	400 mg/g	Mandelic acid	Creatinine in urine	*

* - For sampling details, please see the source document.

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time
Styrene (CAS 100-42-5)	1,2 mmol/l	MAPGA (mandelic acid plus phenylglyoxylic acid)	Urine	*

* - 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	Méthanol	Urine	*
Styrene (CAS 100-42-5)	240 mg/g	Acide phénylglyoxylique	Creatinine in urine	*
	100 mg/g	Acide phénylglyoxylique	Creatinine in urine	*
	0,55 mg/l	Styrène	Venous blood	*
	0,02 mg/l	Styrène	Venous blood	*

* - 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	*
Styrene (CAS 100-42-5)	600 mg/g	Mandelsäure plus Phenylglyoxylsäure	Creatinine in urine	*

* - For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling Time
Styrene (CAS 100-42-5)	1000 mg/g	mandelic acid	Creatinine in urine	*
	740 µmol/mmol	mandelic acid	Creatinine in urine	*

* - 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	*
Styrene (CAS 100-42-5)	600 mg/g	Mandelic acid plus phenylglyoxylic acid	Creatinine in urine	*
	901 mg/l	Mandelic acid plus phenylglyoxylic acid	Urine	*

* - 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	Metanol	Urine	*
Styrene (CAS 100-42-5)	400 mg/g	Ácido mandélico más ácido fenilgloxílico	Creatinine in urine	*
	0,2 mg/l	Estireno	Venous blood	*

* - 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	*
Styrene (CAS 100-42-5)	600 mg/g	Mandelsäure plus Phenyl-glyoxylsäure	Creatinine in urine	*

* - 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 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	Natural colour.
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)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
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 ³
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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. 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.
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Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
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 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.
Carcinogenicity	Based on available data, the classification criteria are not met.
Hungary. 26/2000 EüM Ordinance 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 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.



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

Not applicable.

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.

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. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

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

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major 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 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.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.



H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

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.

