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

1.1. Product identifier

WEVOPUR 552 FL

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

Use of the substance/mixture

Resin/Polyol components for the production of polyurethanes

1.3. Details of the supplier of the safety data sheet

Company name:	WEVO-CHEMIE GmbH	
Street:	Schoenbergstrasse 14	
Place:	D-73760 Ostfildern-Kemnat	
Post-office box:	3108 D-73751 Ostfildern-Kemnat	
Telephone:	+49 (0) 711-16761-500	Telefax: +49 (0) 711-16761-544
e-mail:	info@wevo-chemie.de	
e-mail (Contact person):	MSDS@wevo-chemie.de	
Internet:	www.wevo-chemie.de	

1.4. Emergency telephone number:

+49 761 – 19240 (Poison Information Centre Freiburg)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Fatty acids, C18-unsaturated, trimers, compounds with oleylamine
Fatty acids, tall oil, compounds with oleylamine

Signal word: Warning

Pictograms:

Hazard statements

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

preparation based on polyurethanes

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
78-40-0	Triethyl phosphate			1 - 5 %
	201-114-5	015-013-00-7	01-2119492852-28	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
111-46-6	2,2' -oxybisethanol, diethylene glycol			1 - 5 %
	203-872-2	603-140-00-6	01-2119457857-21	
	Acute Tox. 4; H302			
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate			1 - < 2.5 %
	945-730-9			
	Aquatic Acute 1, Aquatic Chronic 3; H400 H412			
77-99-6	Propylidynetrimethanol			0.1 - < 1 %
	201-074-9			
	Repr. 2; H361fd			
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine			0,1 - < 1 %
	604-612-4		01-2119971821-33	
	Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 2; H302 H317 H373 H411			
85711-55-3	Fatty acids, tall oil, compounds with oleylamine			0,1 - < 1 %
	288-315-1		01-2119974148-28	
	Eye Dam. 1, Skin Sens. 1A, STOT RE 2; H318 H317 H373			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
78-40-0	201-114-5	Triethyl phosphate	1 - 5 %
	oral: LD50 = 1170 mg/kg		
111-46-6	203-872-2	2,2' -oxybisethanol, diethylene glycol	1 - 5 %
	dermal: LD50 = 11890 mg/kg; oral: LD50 = 16500 mg/kg		
	945-730-9	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	1 - < 2.5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg M acute; H400: M=1		
77-99-6	201-074-9	Propylidynetrimethanol	0.1 - < 1 %
	inhalation: LC50 = > 0,85 mg/l (vapours); dermal: LD50 = > 10000 mg/kg; oral: LD50 = ca. 14700 mg/kg		
147900-93-4	604-612-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine	0,1 - < 1 %
	oral: LD50 = > 1570 mg/kg		
85711-55-3	288-315-1	Fatty acids, tall oil, compounds with oleylamine	0,1 - < 1 %
	oral: LD50 = > 2000 mg/kg		

Further Information

This product contains no substances of very high concern in concentrations where an information obligation applies (REACH Regulation (EC) No. 1907/2006, Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Dry extinguishing powder, Water mist, Water spray jet. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)
In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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

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

General advice

Personal protection equipment: see section 8. Provide adequate ventilation. (Technical ventilation of workplace)

For non-emergency personnel

No information available.

For emergency responders

No information available.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (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

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When handling observe the usual precautionary measures for chemicals. Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Keep away from food and beverages. Wash hands before breaks and at the end of work. Keep work clothes separate. Take off dirty, soaked clothes immediately.

Safety precautions for handling freshly molded polyurethane parts: see section 16

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Storage temperature regarding personal safety: max. 40 °C. Protect from sunlight.

Hints on joint storage

Information about storage in one common storage facility: Keep away from: Food and feedingstuffs, Oxidising agent, strong, strong acid, Alkali (lye), concentrated

7.3. Specific end use(s)

Resin/Polyol components for the production of polyurethanes

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
78-40-0	Triethyl phosphate			
Consumer DNEL, long-term		inhalation	systemic	1,74 mg/m³
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	5 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	93,6 mg/m³
Worker DNEL, acute		dermal	systemic	26,6 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	9,9 mg/m³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
111-46-6	2,2' -oxybisethanol, diethylene glycol			
Worker DNEL, long-term		inhalation	systemic	44 mg/m³
Worker DNEL, long-term		inhalation	local	60 mg/m³
Worker DNEL, long-term		dermal	systemic	43 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	12 mg/m³
Consumer DNEL, long-term		inhalation	local	12 mg/m³
Consumer DNEL, long-term		dermal	systemic	21 mg/kg bw/day
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m³
Worker DNEL, acute		inhalation	systemic	28 mg/m³
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,875 mg/m³
Consumer DNEL, acute		inhalation	systemic	7 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,25 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,25 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
77-99-6	Propylidynetrimethanol			
Worker DNEL, acute		dermal	systemic	138,8 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	3037,3 mg/m³
Worker DNEL, long-term		dermal	systemic	0,94 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3,3 mg/m³
Consumer DNEL, acute		dermal	systemic	83,3 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	925 mg/m³
Consumer DNEL, acute		oral	systemic	50 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,34 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,58 mg/m³

Consumer DNEL, long-term	oral	systemic	0,34 mg/kg bw/day
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine		
Worker DNEL, long-term	dermal	systemic	0,024 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	0,012 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,012 mg/kg bw/day
85711-55-3	Fatty acids, tall oil, compounds with oleylamine		
Worker DNEL, long-term	dermal	systemic	0,024 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	0,012 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,012 mg/kg bw/day

PNEC values

CAS No	Name of agent
Environmental compartment	Value
78-40-0	Triethyl phosphate
Freshwater	0,632 mg/l
Freshwater (intermittent releases)	9 mg/l
Marine water	0,063 mg/l
Freshwater sediment	5 mg/kg
Marine sediment	0,5 mg/kg
Micro-organisms in sewage treatment plants (STP)	298,5 mg/l
Soil	0,64 mg/kg
111-46-6	2,2' -oxybisethanol, diethylene glycol
Freshwater	10 mg/l
Freshwater (intermittent releases)	10 mg/l
Marine water	1 mg/l
Freshwater sediment	20,9 mg/kg
Marine sediment	2,09 mg/kg
Micro-organisms in sewage treatment plants (STP)	199,5 mg/l
Soil	1,53 mg/kg
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate
Freshwater	0,002 mg/l
Freshwater (intermittent releases)	0,005 mg/l
Marine water	0 mg/l
Freshwater sediment	3,43 mg/kg
Marine sediment	0,343 mg/kg
Secondary poisoning	267 mg/kg
Soil	0,68 mg/kg
77-99-6	Propylidynetrimethanol
Freshwater	1 mg/l
Marine water	0,1 mg/l
Freshwater sediment	3,505 mg/kg
Marine sediment	0,351 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0,241 mg/kg
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine
Freshwater	0,006 mg/l
Marine water	0,0006 mg/l
Freshwater sediment	2,46 mg/kg
Marine sediment	0,25 mg/kg
Secondary poisoning	0,47 mg/kg
Soil	0,28 mg/kg
85711-55-3	Fatty acids, tall oil, compounds with oleylamine
Secondary poisoning	0,47 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Conditionally suitable materials for protective gloves (DIN EN 374-3): Nitrile rubber: Thickness >= 0.35 mm; Breakthrough time not tested. Recommendation: Dispose of contaminated gloves
The selection of a suitable glove not only depends on the material but also on other quality features and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials is not predictable and must therefore be checked before use. Always get advice from the glove supplier.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	different colours
Odour:	characteristic

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / dynamic: (at 22 °C)	6.000 - 7.000 mPa·s
Water solubility:	partially miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 22 °C):	1,55 - 1,60 g/cm³
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Solid content:	not determined
Evaporation rate:	not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-40-0	Triethyl phosphate				
	oral	LD50 1170 mg/kg	Rat	GESTIS	
111-46-6	2,2' -oxybisethanol, diethylene glycol				
	oral	LD50 16500 mg/kg	Rat	Journal of Industrial Hygiene and Toxico	
	dermal	LD50 11890 mg/kg	Rabbit		
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate				
	oral	LD50 > 5000 mg/kg	hen	Study report (1971)	Five hens received 250, 500, 1000, 2500
	dermal	LD50 > 2000 mg/kg	Rat		OECD 402
77-99-6	Propylidynetrimethanol				
	oral	LD50 ca. 14700 mg/kg	Rat	Study report (1956)	Method: groups of 5 male rats were given
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1956)	Groups of 4 albino rabbits were evaluate
	inhalation (4 h) vapour	LC50 > 0,85 mg/l	Rat		
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine				
	oral	LD50 > 1570 mg/kg	Rat	Study report (1981)	Single oral gavage administration of a f
85711-55-3	Fatty acids, tall oil, compounds with oleylamine				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2011)	OECD Guideline 423

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Fatty acids, C18-unsaturated, trimers, compounds with oleylamine; Fatty acids, tall oil, compounds with oleylamine)

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.

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
78-40-0	Triethyl phosphate						
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Danio rerio	Other company data (1985)	OECD Guideline 203
	Acute algae toxicity	ErC50	ca. 73 mg/l	72 h	Desmodesmus subspicatus	Study report (1987)	other: Bestimmung der Hemmwirkung von Wa
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna		
	Crustacea toxicity	NOEC	31,6 mg/l	21 d	Daphnia magna	Study report (1987)	OECD Guideline 211
	Acute bacteria toxicity	(EC50	>2985 mg/l)	0,5 h	Pseudomonas putida		
111-46-6	2,2' -oxybisethanol, diethylene glycol						
	Acute fish toxicity	LC50	75200 mg/l	96 h	Pimephales promelas	Center for Lake Superior Environmental S	Method: special acute fish toxicity test
	Acute algae toxicity	ErC50	6500 - 13000 mg/l	96 h	Raphidocelis subcapitata	Study report (1982)	other: EPA 600/9-78-018, 1978
	Acute crustacea toxicity	EC50	62630 mg/l	48 h	Daphnia magna	Secondary source (2006)	other: Acute Lethality Test Using Daphni
	Fish toxicity	NOEC	15380 mg/l	7 d	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	other: EPA 600/4-89/001. U.S. Environmen
	Crustacea toxicity	NOEC	8590 mg/l	7 d	Ceriodaphnia dubia	Environ. Toxicology and Chemistry, Vol.	other: EPA 600/4-89/001. U.S. Environmen
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate						
	Acute fish toxicity	LC50	1,3 mg/l	96 h	Oryzias latipes (Ricefish)		
	Acute algae toxicity	ErC50	0,55 mg/l	72 h	Desmodesmus subspicatus	Study report (2006)	EU Method C.3
	Algae toxicity	NOEC	0,11 mg/l	72 d	Desmodesmus subspicatus		
	Crustacea toxicity	NOEC	0,12 mg/l	21 d	Daphnia magna	REVISED OECD HPV FORM 1, SIDS DOSSIER ON	other: OECD 202
	Acute bacteria toxicity	(EC50	> 10000 mg/l)	3 h	Activated sludge	Study report (1987)	OECD Guideline 209
77-99-6	Propylidynetrimethanol						
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Alburnus alburnus	Marine Pollution Bulletin, 14, 213-214 (	A static acute toxicity test was perform
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Raphidocelis subcapitata	Citation of an unavailable study report	other: OECD Guideline, not further speci
	Acute crustacea toxicity	EC50	24h/ 13.000 mg/l	48 h	Daphnia magna	OECD-202	
	Crustacea toxicity	NOEC	> 1000 mg/l	21 d	Daphnia magna	Citation of an unavailable study report	other: OECD guideline, not further speci

	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	EU Method C.11
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Oncorhynchus mykiss	Study report (2011)	OECD Guideline 203
	Acute algae toxicity	ErC50 8 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2011)	OECD Guideline 201
	Acute crustacea toxicity	EL50 > 100 mg/l	48 h	Daphnia magna	Study report (2011)	OECD Guideline 202
	Crustacea toxicity	NOEC >= 100 mg/l	21 d	Daphnia magna	Study report (2012)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewag	Study report (2011)	EU Method C.11
85711-55-3	Fatty acids, tall oil, compounds with oleylamine					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 7 mg/l	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 15,2 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC >= 2,3 - < 4,6 mg/l	21 d	Daphnia magna	REACh Registration Dossier	EU Method C.20
	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	EU Method C.11

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-40-0	Triethyl phosphate			
	OECD 302B	97%	28	
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate			
	OECD 301C	75 %	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-40-0	Triethyl phosphate	1,11
111-46-6	2,2' -oxybisethanol, diethylene glycol	-1,98
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	4,5
77-99-6	Propylidynetrimethanol	-0,47
147900-93-4	Fatty acids, C18-unsaturated, trimers, compounds with oleylamine	> 5,7
85711-55-3	Fatty acids, tall oil, compounds with oleylamine	> 6,2

BCF

CAS No	Chemical name	BCF	Species	Source
78-40-0	Triethyl phosphate	< 1,3	Cyprinus carpio	Japan Chemical Indus
111-46-6	2,2' -oxybisethanol, diethylene glycol	100	Leuciscus idus melanotus	Chemosphere 14(10):
	Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phospha-te, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	>= 0,16	Alburnus alburnus	Environmental Toxico
77-99-6	Propylidynetrimethanol	< 1	Cyprinus carpio	Citation of an unava

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Dispose in accordance with applicable international, national and local laws, ordinances and statutes.
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Contaminated packaging

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Recycling must be done fully compliant with the requirements of all authorities with jurisdiction. No disposal to the sewer.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 3, Entry 75

2010/75/EU (VOC):	4,477 % (69,394 g/l)
2004/42/EC (VOC):	6,537 % (101,33 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles 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.
Water hazard class (D):	1 - slightly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,6,11.

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Safety precautions for handling freshly molded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of freshly molded polyurethane parts using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous characteristics. Skin contact with traces of these substances must be avoided. Therefore, during demolding or other handling of fresh molded parts, protective gloves tested according to DIN-EN 374 (e.g. nitrile rubber >= 0,35 mm thick, breakthrough time >= 480 min, or according to recommendations from glove makers thinner gloves that need to be changed in compliance with breakthrough times more frequently) must be used. Depending on formulation and processing conditions, the requirements may be different from handling of the pure substances. Closed protective clothing is required for the protection of other areas of skin.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)