



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 1 of 13

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

1.1. Product identifier

8616/10S PU Resin

UFI: M4NF-V4H3-H00R-WKXU

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

Use of the substance/mixture

Resins (prepolymers)

1.3. Details of the supplier of the safety data sheet

Company name: Kisling (Deutschland) GmbH

Street: Salzstraße 15

Place: D-74676 Niedernhall Telephone: +49 7940 50961 61

E-mail: customerservice@kisling.com

Contact person: Product Compliance Telephone: +49 7940 5096 143

E-mail: compliance@kisling.com

Internet: www.kisling.com

1.4. Emergency telephone 24 hr. emergency phone number +1 872 5888271 (KAR)

number: Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH208 Contains maleic anhydride. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 2 of 13

Relevant ingredients

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (Regulation (EC) N	o 1272/2008)		
78-40-0	triethyl phosphate			1 - < 5 %
	201-114-5	015-013-00-7		
	Acute Tox. 4, Eye Irrit. 2; H302 H	319		
77-99-6	Propylidynetrimethanol			1 - < 5 %
	201-074-9		01-2119486799-10	
	Repr. 2; H361fd			
	Reaction mass of 2-ethylpropane propylidynetrimethanol	0.1 - < 1 %		
			01-2119488034-38	
	Repr. 2, Eye Irrit. 2; H361fd H319			
108-31-6	maleic anhydride			< 0.001 %
	203-571-6	607-096-00-9	01-2119472428-31	
	Acute Tox. 4, Skin Corr. 1B, Eye H318 H334 H317 H372 EUH071			

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		
77-99-6	201-074-9	Propylidynetrimethanol	1 - < 5 %	
	dermal: LD50 = > 10000 mg/kg; oral: LD50 = ca. 14700 mg/kg			
		Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol	0.1 - < 1 %	
	dermal: LD50 = >10000 mg/kg; oral: LD50 = >2000 mg/kg			
108-31-6	203-571-6	maleic anhydride	< 0.001 %	
	dermal: LD50	= 2620 mg/kg; oral: LD50 = 1090 mg/kg Skin Sens. 1A; H317: >= 0.001 - 100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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.





according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 3 of 13

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Dry extinguishing powder

Unsuitable extinguishing media

Full water iet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. See protective measures under point 7 and 8.

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

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

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

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

Never use pressure to empty container. Do not allow to enter into surface water or drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 4 of 13

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent					
DNEL type		Exposure route	Effect	Value		
77-99-6	Propylidynetrimethanol					
Worker DNEL	., long-term	inhalation	systemic	3,3 mg/m³		
Worker DNEL	., long-term	dermal	systemic	0,94 mg/kg bw/day		
Consumer DN	NEL, long-term	inhalation	systemic	0,58 mg/m³		
Consumer DN	NEL, long-term	dermal	systemic	0,34 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0,34 mg/kg bw/day		
	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-diol	dioxane-5-methanol and	propylidynetrimethan	ol		
Worker DNEL	, long-term	dermal	systemic	4,2 mg/kg bw/day		
Worker DNEL	., long-term	inhalation	systemic	14,6 mg/m³		
Consumer DN	NEL, long-term	oral	systemic	2,5 mg/kg bw/day		
Consumer DN	NEL, long-term	dermal	systemic	2,5 mg/kg bw/day		
Consumer DN	NEL, long-term	inhalation	systemic	4,4 mg/m³		
108-31-6 maleic anhydride						
Worker DNEL, long-term		inhalation	systemic	0,081 mg/m³		
Worker DNEL, acute		inhalation	systemic	0,2 mg/m³		
Worker DNEL, long-term		inhalation	local	0,081 mg/m³		
Worker DNEL	., acute	inhalation	local	0,2 mg/m³		



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 5 of 13

PNEC values

CAS No	Name of agent	
Environment	al compartment	Value
	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidyne	etrimethanol
Freshwater		0,743 mg/l
Marine wate		0,074 mg/l
Micro-organi	sms in sewage treatment plants (STP)	100 mg/l
108-31-6	maleic anhydride	
Freshwater		0,038 mg/l
Freshwater (intermittent releases)		0,379 mg/l
Marine water		
Freshwater	0,296 mg/kg	
Marine sedir	0,03 mg/kg	
Micro-organisms in sewage treatment plants (STP) 44,6		44,6 mg/l
Soil 0,037 mg		

8.2. Exposure controls





Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

NR (natural rubber, Natural latex) 0,5 mm, Breakthrough time: 480 min

EN ISO 374

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Odour threshold:

Liquid

black

characteristic

not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

not determined

boiling range:



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 6 of 13

not determined Flammability: not determined Lower explosion limits: not determined Upper explosion limits: >100 °C Flash point: not determined Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 22 °C):

Relative vapour density:

Particle characteristics:

not determined

1.40 – 1.52 g/cm³

not determined

not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined Solid content: not determined Viscosity / dynamic: 3.000 - 4.500 mPa·s

(at 22 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours can form explosive mixtures with air.

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.

Further information

No data available

SECTION 11: Toxicological information



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 7 of 13

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) 39039 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	No Chemical name							
	Exposure route	Dose		Species	Source	Method		
78-40-0	triethyl phosphate							
	oral	LD50 mg/kg	1170	Rat	GESTIS			
77-99-6	Propylidynetrimethanol							
	oral	LD50 mg/kg	ca. 14700	Rat	Study report (1956)	Method: groups of 5 male rats were given		
	dermal	LD50 mg/kg	> 10000	Rabbit	Study report (1956)	Groups of 4 albino rabbits were evaluate		
	Reaction mass of 2-ethy	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol						
	oral	LD50 mg/kg	>2000	Rat	Pre-supplier/manufac turer	OECD 423		
	dermal	LD50 mg/kg	>10000	Rabbit	Pre-supplier/manufac turer	OECD 402		
108-31-6	maleic anhydride							
	oral	LD50 mg/kg	1090	Rat	SIDS Initial Assessment Report for SIAM	OECD Guideline 401		
	dermal	LD50 mg/kg	2620	Rabbit	Toxicol. Appl. Pharmacol. 42, 417-424 (1	The method used for skin absorption toxi		

Irritation and corrosivity

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.

Sensitising effects

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

Contains maleic anhydride. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.





according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 8 of 13

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

Other information

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

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



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 9 of 13

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
77-99-6	Propylidynetrimethanol								
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Alburnus alburnus	Marine Pollution Bulletin, 14, 213-214 (A static acute toxicity test was perform		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Raphidocelis subcapitata	Citation of an unavailable study report	other: OECD Guideline, not further speci		
	Crustacea toxicity	NOEC mg/l	> 1000	21 d	Daphnia magna	Citation of an unavailable study report	other: OECD guideline, not further speci		
	Acute bacteria toxicity	EC50 mg/l ()	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	EU Method C.11		
	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol								
	Acute fish toxicity	LC50 mg/l	1250	96 h	Danio rerio (zebrafish)	Pre-supplier/man ufacturer	OECD 203		
	Acute algae toxicity	ErC50	743 mg/l	72 h	Pseudokirchneriella subcapitata	Pre-supplier/man ufacturer	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	1090	48 h	Daphnia magna (Big water flea)	Pre-supplier/man ufacturer	OECD 202		
108-31-6	maleic anhydride								
	Acute fish toxicity	LC50	75 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Pre-supplier/man ufacturer			
	Acute algae toxicity	ErC50 mg/l	74,35	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	42,81	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202		
	Crustacea toxicity	NOEC	10 mg/l	28 d	Daphnia magna (Big water flea)	Pre-supplier/man ufacturer			

12.2. Persistence and degradability

No data available

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation	-	-	•	
108-31-6	maleic anhydride				
	OECD 301B	> 90 %	28		
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

No data available



according to Regulation (EC) No 1907/2006

8616/10S PU Resin Revision date: 26.07.2024 Product code: 50063 Page 10 of 13

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-40-0	triethyl phosphate	0,8
77-99-6	Propylidynetrimethanol	-0,47
	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol	0,19
108-31-6	maleic anhydride	-2,61

BCF

CAS No	Chemical name	BCF	Species	Source
77-99-6	Propylidynetrimethanol	< 1	Cyprinus carpio	Citation of an unava

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No data available

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 data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous

waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous

waste

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal

packaging waste); plastic packaging

Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.



according to Regulation (EC) No 1907/2006

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Revision date: 26.07.2024 Product code: 50063 Page 11 of 13

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 75

Information according to Directive

2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information



according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 12 of 13

Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage Eye Irrit: Eye irritation

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation Repr: Reproductive toxicity

STOT RE: Specific target organ toxicity - repeated exposure

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

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% 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

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H31/I	Causes severe skin hurns an

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.





according to Regulation (EC) No 1907/2006

8616/10S PU Resin

Revision date: 26.07.2024 Product code: 50063 Page 13 of 13

H372 Causes damage to organs through prolonged or repeated exposure.

EUH071 Corrosive to the respiratory tract.

EUH208 Contains maleic anhydride. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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