

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

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

#### 1.1 Product identifier

Trade name : WIT-PE 1000, 585ml (A)

Product code : 5918605585 (A)

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

Use of the Sub-  
stance/Mixture : Construction material, Dual-component adhesive  
Professional use product

Recommended restrictions  
on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : Würth UK Ltd  
1 Centurion Way  
Erith, Kent

Telephone : +44 (0)3300 555 444

Telefax : +44 (0)3300 555 666

E-mail address of person  
responsible for the SDS : prodsafe@wuerth.com

#### 1.4 Emergency telephone number

+44 (0)870 190 6777

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



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1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :  
**Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane  
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2;	>= 50 - < 70

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



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		H411 specific concentration limit Eye Irrit. 2; H319 ≥ 5 % Skin Irrit. 2; H315 ≥ 5 %	
Quartz (SiO <sub>2</sub> )	14808-60-7 238-878-4	STOT RE 1; H372 (Lungs)	≥ 30 - < 50
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	933999-84-9 01-2119463471-41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	≥ 10 - < 20

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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---

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

Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Not applicable  
Will not burn

Unsuitable extinguishing media : Not applicable  
Will not burn

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Chlorine compounds  
Silicon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.

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Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages  
cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate contain-  
ment to keep material from spreading. If dyked material can  
be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absor-  
bent.  
Local or national regulations may apply to releases and dis-  
posal of this material, as well as those materials and items  
employed in the cleanup of releases. You will need to deter-  
mine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding  
certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE  
CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing dust, fume, gas, mist, vapours or spray.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety  
practice, based on the results of the workplace exposure as-  
sessment  
Take care to prevent spills, waste and minimize release to the  
environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye  
flushing systems and safety showers close to the working  
place. When using do not eat, drink or smoke. Contaminated  
work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep in properly labelled containers. Store in accordance with  
areas and containers the particular national regulations.

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According to REACH Regulation (EC) No 1907/2006, as amended by  
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## WIT-PE 1000, 585ml (A)

Version 1.1      Revision Date: 30.03.2022      SDS Number: 10619977-00002      Date of last issue: 25.02.2022  
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Advice on common storage : No special restrictions on storage with other products.

Storage period : 18 Months

Recommended storage temperature : 5 - 25 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0.1 mg/m <sup>3</sup> (Silica)	GB EH40
	Further information: Capable of causing cancer and/or heritable genetic damage.			
		TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
	Further information: Carcinogens or mutagens			

**These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.**

Quartz (SiO<sub>2</sub>)

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	Workers	Inhalation	Long-term systemic effects	10.57 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	10.57 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0.44 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.0226 mg/cm <sup>2</sup>
	Workers	Skin contact	Acute local effects	0.0226 mg/cm <sup>2</sup>
	Consumers	Inhalation	Long-term systemic effects	5.29 mg/m <sup>3</sup>

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version 1.1      Revision Date: 30.03.2022      SDS Number: 10619977-00002      Date of last issue: 25.02.2022  
Date of first issue: 25.02.2022

	Consumers	Inhalation	Acute systemic effects	5.29 mg/m3
	Consumers	Inhalation	Long-term local effects	0.27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	1.7 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0.0136 mg/cm2
	Consumers	Skin contact	Acute local effects	0.0136 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	1.5 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1.5 mg/kg bw/day
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	Workers	Inhalation	Long-term systemic effects	12.25 mg/m3
	Workers	Inhalation	Acute systemic effects	12.25 mg/m3
	Workers	Skin contact	Long-term systemic effects	8.33 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	8.33 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	3.571 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	3.571 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0.75 mg/kg bw/day

### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	Fresh water	0.011 mg/l
	Freshwater - intermittent	0.115 mg/l
	Marine water	0.001 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0.283 mg/kg dry weight (d.w.)
	Marine sediment	0.028 mg/kg dry weight (d.w.)
	Soil	0.223 mg/kg dry weight (d.w.)
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymeth-	Fresh water	0.006 mg/l

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UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version 1.1      Revision Date: 30.03.2022      SDS Number: 10619977-00002      Date of last issue: 25.02.2022  
Date of first issue: 25.02.2022

ylene)]bisoxirane		
	Freshwater - intermittent	0.018 mg/l
	Marine water	0.001 mg/l
	Marine water - intermittent	0.002 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.996 mg/kg dry weight (d.w.)
	Marine sediment	0.1 mg/kg dry weight (d.w.)
	Soil	0.196 mg/kg dry weight (d.w.)
	Secondary Poisoning	11 mg/kg food

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety goggles  
Equipment should conform to BS EN 166

#### Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.7 mm  
Directive : Equipment should conform to BS EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to BS EN 14387

Filter type : Combined particulates and organic vapour type (A-P)



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UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: paste
Colour	: beige
Odour	: No data available
Odour Threshold	: No data available
pH	: substance/mixture is non-soluble (in water)
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Will not burn
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Density	: 1.45 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

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### 9.2 Other information

Particle size : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : None.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

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### Quartz (SiO<sub>2</sub>):

Acute oral toxicity : LD50 (Rat): > 22,500 mg/kg

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.035 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Result : Skin irritation  
Remarks : Based on harmonised classification in EU regulation  
1272/2008, Annex VI

### Quartz (SiO<sub>2</sub>):

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species : Rabbit  
Result : Skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on harmonised classification in EU regulation  
1272/2008, Annex VI

### Quartz (SiO<sub>2</sub>):

Species : Rabbit  
Method : OECD Test Guideline 405

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

Result : No eye irritation  
Remarks : Based on data from similar materials

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: equivocal

Test Type: Chromosome aberration test in vitro  
Result: positive

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative

# SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 486  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species : Rat  
Application Route : Ingestion  
Exposure time : 24 Months  
Method : OECD Test Guideline 453  
Result : negative

Species : Mouse  
Application Route : Skin contact  
Exposure time : 24 Months  
Method : OECD Test Guideline 453  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Skin contact  
Result: negative

# SAFETY DATA SHEET

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## WIT-PE 1000, 585ml (A)

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---

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Effects on foetal development	:	Test Type: Embryo-foetal development
	:	Species: Rat
	:	Application Route: Ingestion
	:	Method: OECD Test Guideline 414
	:	Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Assessment	:	No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.
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#### Quartz (SiO<sub>2</sub>):

Exposure routes	:	inhalation (dust/mist/fume)
Target Organs	:	Lungs
Assessment	:	Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

### Repeated dose toxicity

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species	:	Rat
NOAEL	:	50 mg/kg
LOAEL	:	250 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Method	:	OECD Test Guideline 408

Species	:	Mouse
NOAEL	:	>= 100 mg/kg
Application Route	:	Skin contact
Exposure time	:	13 Weeks
Method	:	OECD Test Guideline 411

#### Quartz (SiO<sub>2</sub>):

Species	:	Humans
LOAEL	:	0.053 mg/m <sup>3</sup>
Application Route	:	Inhalation
Remarks	:	These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

# SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

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### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Species	: Rat
NOAEL	: 300 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OECD Test Guideline 408

### Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : EL50 (Scenedesmus capricornutum (fresh water algae)): > 10  
plants  
- 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

NOELR (Scenedesmus capricornutum (fresh water algae)): >  
1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

Toxicity to microorganisms : IC50 : > 100 mg/l  
Exposure time: 3 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: > 0.1 - 1 mg/l  
aquatic invertebrates (Chronic toxicity)  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

#### Quartz (SiO<sub>2</sub>):

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 508 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 731 mg/l  
aquatic invertebrates Exposure time: 48 h  
Remarks: Based on data from similar materials

### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 47 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

## 12.2 Persistence and degradability

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 47 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### Components:

#### 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Partition coefficient: n- : log Pow: 3.5  
octanol/water

#### Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2):

Partition coefficient: n- : log Pow: 0.822  
octanol/water Method: OECD Test Guideline 107



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : 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.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
Waste Code	: The following Waste Codes are only suggestions:  used product 08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances  unused product 08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances  uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

### SECTION 14: Transport information

#### 14.1 UN number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077
IATA	: UN 3077

#### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)
IATA	: Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)

#### 14.3 Transport hazard class(es)

ADN	: 9
ADR	: 9
RID	: 9
IMDG	: 9
IATA	: 9

#### 14.4 Packing group

ADN	
Packing group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
ADR	

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH)

E2	ENVIRONMENTAL HAZARDS	Quantity 1 200 t	Quantity 2 500 t
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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0.1 %, 1.45 g/l  
Remarks: VOC content excluding water

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of H-Statements

H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H372 : Causes damage to organs through prolonged or repeated

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

H411 : exposure if inhaled.  
: Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers  
from the risks related to exposure to carcinogens or mutagens  
at work  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2004/37/EC / TWA : Long term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## WIT-PE 1000, 585ml (A)

Version	Revision Date:	SDS Number:	Date of last issue: 25.02.2022
1.1	30.03.2022	10619977-00002	Date of first issue: 25.02.2022

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Sheet cy, <http://echa.europa.eu/>

### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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