

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



## 2K FIX CURATIVE

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

#### 1.1. Product identifier

Product name : 2K FIX CURATIVE  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Adhesive

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

TEC7\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.be  
\*TEC7 is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Eye Irrit.	category 2	H319: Causes serious eye irritation.

#### 2.2. Label elements



Signal word : Warning

H-statements  
H319 Causes serious eye irritation.

P-statements  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear eye protection.  
P264 Wash hands thoroughly after handling.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No other hazards known

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	102-60-3 203-041-4	10% <C<25%	Eye Irrit. 2; H319	(1)(10)	Constituent	
Carbon black 01-2119384822-32	1333-86-4 215-609-9	C>1%		(2)	Constituent	
zeolites	1318-02-1 215-283-8	C>1%		(2)	Constituent	
silicon dioxide 01-2119379499-16	7631-86-9 231-545-4	C>1%		(2)	Constituent	
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9	C>1%		(2)	Constituent	

- (1) For H- and EUH-statements in full: see section 16  
(2) Substance with a Community workplace exposure limit  
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

No effects known.

##### After eye contact:

Irritation of the eye tissue.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

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On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

## 5.3. Advice for firefighters

### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product.

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

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: room temperature. Meet the legal requirements. Store in a dry area. Store at room temperature. Keep only in the original container.

#### 7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases, oxidizing agents.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### Belgium

Carbone (noir de)	Time-weighted average exposure limit 8 h	3 mg/m <sup>3</sup>
Particules non classifiées autrement	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup> (1)
	Time-weighted average exposure limit 8 h	3 mg/m <sup>3</sup> (2)
Silices amorphes : précipités (gel de silice)	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup>
Silices amorphes: fumées	Time-weighted average exposure limit 8 h	2 mg/m <sup>3</sup> (2)
Silices amorphes: silice fondue SiO <sub>2</sub>	Time-weighted average exposure limit 8 h	0.1 mg/m <sup>3</sup> (3)
Silices amorphes: terre de diatomées, non calcinées	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup> (1)
	Time-weighted average exposure limit 8 h	3 mg/m <sup>3</sup> (2)
Talc (sans fibre d'amiante)	Time-weighted average exposure limit 8 h	2 mg/m <sup>3</sup> (3)

(1) fraction inhalable

(2) Fraction alvéolaire

(3) poussières alvéolaires

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## The Netherlands

Talk	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.016 ppm <b>(1)</b>
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.25 mg/m <sup>3</sup> <b>(1)</b>

(1) respirabel

## France

Noir de carbone	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	3.5 mg/m <sup>3</sup>
Poussières réputées sans effet spécifique	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	0.9 mg/m <sup>3</sup> <b>(1)</b>
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	4 mg/m <sup>3</sup> <b>(2)</b>

(1) La valeur limite concerne la fraction alvéolaire

(2) La valeur limite concerne la fraction totale

## Germany

Allgemeiner Staubgrenzwert: Alveolengängige Fraktion	Time-weighted average exposure limit 8 h (TRGS 900)	1.25 mg/m <sup>3</sup> <b>(1)</b>
Kieselsäuren, amorphe	Time-weighted average exposure limit 8 h (TRGS 900)	1 mg/m <sup>3</sup> <b>(2)</b>
	<i>Kolloidale amorphe Kieselsäure (7631-86-9) einschließlich pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel).</i>	

(1) Alveolengängige Fraktion

(2) Einatembare Fraktion; UF: 8 (II)

## Austria

Kieselsäuren, amorphe a) kolloidale amorphe Kieselsäure einschl. pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel) und ungebrannter Kieselgur	Tagesmittelwert (MAK)	4 mg/m <sup>3</sup> <b>(1)</b>
Talk (asbestfaserfrei)	Tagesmittelwert (MAK)	2 mg/m <sup>3</sup> <b>(2)</b>

(1) Einatembare Fraktion

(2) Alveolengängige Fraktion

## UK

Carbon black	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	3.5 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	7 mg/m <sup>3</sup>
Inhalable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m <sup>3</sup>
Respirable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	4 mg/m <sup>3</sup>
Silica, amorphous	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	2.4 mg/m <sup>3</sup> <b>(1)</b>
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	6 mg/m <sup>3</sup> <b>(2)</b>
Talc	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 mg/m <sup>3</sup> <b>(1)</b>

(1) Respirable dust

(2) Inhalable dust

## USA (TLV-ACGIH)

Carbon black	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	3 mg/m <sup>3</sup> <b>(1)</b>
Particles (insoluble or poorly soluble) not otherwise specified	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	3 mg/m <sup>3</sup> <b>(2)</b>
Talc: Containing asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 fibers/cm <sup>3</sup> <b>(3)</b>
Talc: Containing no asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m <sup>3</sup> <b>(4)</b>

(1) (I): Inhalable fraction

(2) (R): Respirable fraction

(3) (F): Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination

(4) R,E: Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica

### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

Product name	Test	Number
Carbon Black	NIOSH	5000
Carbon Black	NIOSH	5100

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Product name	Test	Number
Carbon Black	OSHA	ID 196
Dust, Respirable Nuisance (Particulates)	NIOSH	0600
Dust, Respirable	ASTM	D 4532-92
Dust, Total Nuisance (Particulates)	NIOSH	0500
fumed (silica, amorphous)	NIOSH	7501
fused (silica, amorphous)	NIOSH	7501
gel (silica, amorphous)	NIOSH	7501
Silica, Amorphous (Respirable)	NIOSH	7501
total aerosol mass	NIOSH	0501

**8.1.3 Applicable limit values when using the substance or mixture as intended**  
If limit values are applicable and available these will be listed below.

**8.1.4 Threshold values**

**DNEL/DMEL - Workers**

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	29.4 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	4.2 mg/kg bw/day	

Carbon black

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1 mg/m <sup>3</sup>	

zeolites

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	3 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2.5 mg/m <sup>3</sup>	

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.16 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2.16 mg/m <sup>3</sup>	
	Long-term local effects inhalation	3.6 mg/m <sup>3</sup>	
	Acute local effects inhalation	3.6 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	43.2 mg/kg bw/day	
	Long-term local effects dermal	4.54 mg/cm <sup>2</sup>	

**DNEL/DMEL - General population**

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	8.7 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2.5 mg/kg bw/day	
	Long-term systemic effects oral	2.5 mg/kg bw/day	

Carbon black

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.06 mg/m <sup>3</sup>	

zeolites

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.003 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.25 mg/kg bw/day	
	Long-term systemic effects oral	1.25 mg/kg bw/day	

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.08 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	1.08 mg/m <sup>3</sup>	
	Long-term local effects inhalation	1.8 mg/m <sup>3</sup>	
	Acute local effects inhalation	1.8 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	21.6 mg/kg bw/day	
	Long-term local effects dermal	2.27 mg/kg bw/day	
	Long-term systemic effects oral	160 mg/kg bw/day	
	Acute systemic effects oral	160 mg/kg bw/day	

**PNEC**

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Compartment	Value	Remark
Fresh water	0.085 mg/l	
Marine water	0.009 mg/l	
Fresh water (intermittent releases)	1.51 mg/l	
STP	70 mg/l	
Fresh water sediment	0.193 mg/kg sediment dw	
Marine water sediment	0.019 mg/kg sediment dw	
Soil	0.018 mg/kg soil dw	

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Carbon black

Compartment	Value	Remark
Fresh water	50 mg/l	

zeolites

Compartment	Value	Remark
Fresh water	3.2 mg/l	
Marine water	0.32 mg/l	
STP	95 mg/l	
Soil	600 mg/kg soil dw	

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Compartment	Value	Remark
Fresh water	597.97 mg/l	
Fresh water (intermittent releases)	597.97 mg/l	
Marine water	141.26 mg/l	
Marine water (intermittent releases)	141.26 mg/l	
Fresh water sediment	31.33 mg/kg sediment dw	
Marine water sediment	3.13 mg/kg sediment dw	
Air	10 mg/m <sup>3</sup>	

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
butyl rubber	> 480 minutes	0.5 mm	Class 6	
neoprene (chloroprene rubber)	> 480 minutes	0.5 mm	Class 6	
nitrile rubber	> 480 minutes	0.5 mm	Class 6	
PVC	> 480 minutes	0.5 mm	Class 6	

#### c) Eye protection:

Safety glasses (EN 166).

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Paste
Colour	Black
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	No data available in the literature
Boiling point	No data available in the literature
Flammability	Not classified as flammable
Explosion limits	No data available in the literature
Flash point	No data available in the literature
Auto-ignition temperature	No data available in the literature
Decomposition temperature	No data available in the literature
pH	No data available in the literature
Kinematic viscosity	No data available in the literature
Dynamic viscosity	60000 mPa.s
Solubility	No data available in the literature
Log Kow	Not applicable (mixture)
Vapour pressure	No data available in the literature
Absolute density	1290 kg/m <sup>3</sup>
Relative density	1.29

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Relative vapour density	Not applicable
Particle size	Not applicable

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

(strong) acids, (strong) bases, oxidizing agents.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

##### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2890 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation						Data waiving	

#### Carbon black

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 10000 mg/kg		Rat (male / female)	Experimental value	
Dermal						Data waiving	
Inhalation (dust)	LC0	Equivalent to OECD 403	4.6 mg/m <sup>3</sup> air		Rat	Experimental value	

#### zeolites

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5110 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (female)	Experimental value	
Inhalation (dust)	LC50		> 3.35 mg/l air	4 h	Rat (male / female)	Experimental value	

#### silicon dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50		> 2000 mg/kg bw	24 h	Rabbit	Experimental value	
Inhalation (aerosol)	LC50	OECD 436	> 5.01 mg/l	4 h	Rat (male / female)	Experimental value	

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## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	> 5000 mg/kg bw		Rat (male)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 2.1 mg/l	4 h	Rat (male / female)	Experimental value	(maximum achievable concentration)

### Conclusion

Not classified for acute toxicity

### Corrosion/irritation

#### 2K FIX CURATIVE

No (test) data on the mixture available

Classification is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

#### Carbon black

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hrs; 4 days	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

#### zeolites

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

#### silicon dioxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Experimental value	

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Not applicable (in vitro test)	Not irritating	EU Method B.46			Reconstructed human epidermis	Experimental value	

### Conclusion

Causes serious eye irritation.

Not classified as irritating to the respiratory system

Not classified as irritating to the skin

### Respiratory or skin sensitisation

#### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value	

#### Carbon black

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	
Inhalation	Not sensitizing				Mouse (female)	Experimental value	

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## zeolites

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig	Experimental value	

## silicon dioxide

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value	
Inhalation	Not sensitizing				Rat (male)	Experimental value	

## Conclusion

Not classified as sensitizing for inhalation  
Not classified as sensitizing for skin

## Specific target organ toxicity

### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement is based on the relevant ingredients  
1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	NOAEL	OECD 422	300 mg/kg bw/day	No effect	30 day(s) - 49 day (s)	Rat (male / female)	Experimental value	
Dermal							Data waiving	
Inhalation							Data waiving	

## Carbon black

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	Dose level	Equivalent to OECD 452	2050 mg/kg bw/day	No effect	2 year(s)	Rat (female)	Experimental value	
Dermal	NOEL		20 %	No effect	12 month(s) - 18 month(s)	Mouse (male / female)	Experimental value	
Inhalation (aerosol)	NOEC	Subchronic toxicity test	1 mg/m <sup>3</sup> air	Lungs (no effect)	13 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value	
Inhalation (aerosol)	LOEC	Subchronic toxicity test	7 mg/m <sup>3</sup> air	Lungs (pneumonia)	13 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value	

## zeolites

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Subchronic toxicity test	5000 ppm	No effect	90 day(s)	Rat (male)	Experimental value	
Oral (diet)	NOAEL	Subchronic toxicity test	10000 ppm	No effect	90 day(s)	Rat (female)	Experimental value	
Dermal							Data waiving	
Inhalation (dust)	NOAEL		> 20 mg/m <sup>3</sup> air	No effect	4 weeks (3 times / week)	Rat (male / female)		

## silicon dioxide

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	NOAEL	OECD 407	> 1000 mg/kg bw/day	No effect	28 day(s)	Rat (male)	Experimental value	
Dermal	NOAEL	Subacute toxicity test	≥ 10000 mg/kg bw/day	No effect	3 weeks (5 days / week)	Rabbit (male / female)	Experimental value	
Inhalation (aerosol)	LOAEC	OECD 413	0.5 mg/m <sup>3</sup> air - 2.5 mg/m <sup>3</sup> air	Inflammation of the respiratory tract	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

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# 2K FIX CURATIVE

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Equivalent to OECD 452	100 mg/kg bw/day	No effect	101 day(s)	Rat (male / female)	Experimental value	
Dermal							Data waiving	
Inhalation (aerosol)	NOAEC	Equivalent to OECD 452	10.8 mg/m <sup>3</sup> air	No effect	52 weeks (7h / day, 5 days / week)	Rat (male / female)	Experimental value	

### Conclusion

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

#### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster lung fibroblasts (V79)		Read-across	

#### Carbon black

Result	Method	Test substrate	Effect	Value determination	Remark
Positive without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value	
Negative	Equivalent to OECD 471			Experimental value	

#### zeolites

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	

#### silicon dioxide

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	EPA OPP 84-2	Chinese hamster ovary (CHO)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value	

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	

### Mutagenicity (in vivo)

#### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
					Data waiving	

#### Carbon black

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Inhalation (aerosol))		13 week(s)	Rat (female)		Experimental value	

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# 2K FIX CURATIVE

## zeolites

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	Equivalent to OECD 475		Rat (male)	No effect	Experimental value	Single treatment

## silicon dioxide

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	Equivalent to OECD 475	5 days (1x / day)	Rat (male)	No effect	Experimental value	

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	Equivalent to OECD 478	5 days (1x / day)	Rat (male)	No effect	Experimental value	

## Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### 2K FIX CURATIVE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Unknown							Data waiving	

### Carbon black

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Inhalation (dust)	NOAEC	Human observation study		No carcinogenic effect	≥ 1 year(s)	Human	Experimental value	Not determined
Dermal	NOEC		20 %		12 weeks (3 times / week) - 18 weeks (3 times / week)	Mouse (male / female)	Experimental value	
Oral (diet)	NOEL		104 mg/kg bw/day		2 year(s)	Rat (female)	Experimental value	

### zeolites

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Carcinogenic toxicity study	≥ 60 mg/kg bw/day	No carcinogenic effect	104 week(s)	Rat (male / female)	Experimental value	

### silicon dioxide

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	Equivalent to OECD 453	1800 mg/kg bw/day - 3200 mg/kg bw/day	No carcinogenic effect	103 week(s)	Rat (male / female)	Experimental value	

### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Inhalation (aerosol)	NOAEC	OECD 453	18 mg/m <sup>3</sup> air	No carcinogenic effect	113 weeks (6h / day, 5 days / week) - 122 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	
Oral (diet)	NOAEL	OECD 453	100 mg/kg bw/day	No carcinogenic effect	101 day(s)	Rat (male / female)	Experimental value	

## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### 2K FIX CURATIVE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Publication date: 2024-07-09

# 2K FIX CURATIVE

## 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 422	1000 mg/kg bw/day	30 days (gestation, daily) - 49 days (gestation, daily)	Rat (male / female)	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 422	300 mg/kg bw/day	30 days (gestation, daily) - 49 days (gestation, daily)	Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	1000 mg/kg bw/day	30 day(s) - 49 day (s)	Rat (male / female)	No effect	Experimental value	

## Carbon black

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Inhalation (aerosol))	NOEC	Developmental toxicity study	42 mg/m <sup>3</sup> air	11 days (gestation, daily)	Mouse	No effect	Experimental value	
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	15 days (gestation, daily)	Rat (female)	No effect	Experimental value	
Maternal toxicity (Inhalation (aerosol))	LOAEC	Developmental toxicity study	42 mg/m <sup>3</sup> air	11 days (gestation, daily)	Mouse	Lungs (lung tissue affection/degeneration)	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	15 days (gestation, daily)	Rat (female)	No effect	Experimental value	
Effects on fertility	NOEL		500 mg/kg bw/day	5 day(s)	Mouse (female)	No effect	Experimental value	

## zeolites

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 1600 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 1600 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect	Experimental value	
Effects on fertility (Oral (diet))	NOAEL		≥ 2 %		Rat (male)	Testes (no effect)	Experimental value	

## silicon dioxide

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 416	≥ 1000 mg/kg bw/day		Rat (male / female)	No effect	Experimental value	

## Talc (Mg3H2(SiO3)4)

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Developmental toxicity study	1600 mg/kg bw/day	10 days (1x / day)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	Developmental toxicity study	≥ 1600 mg/kg bw/day	10 days (1x / day)	Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 416	> 900 mg/kg bw/day	13 days (1x / day)	Rabbit (female)	No effect	Experimental value	

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Aspiration hazard

### 2K FIX CURATIVE

Judgement is based on the relevant ingredients  
Not classified for aspiration toxicity

## Toxicity other effects

### 2K FIX CURATIVE

No (test) data on the mixture available

Publication date: 2024-07-09

# 2K FIX CURATIVE

## Chronic effects from short and long-term exposure

### 2K FIX CURATIVE

No effects known.

### 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 2K FIX CURATIVE

No (test) data on the mixture available

Judgement of the mixture is based on the relevant ingredients

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	DIN 38412-15	2700 mg/l	48 h	Leuciscus idus	Static system		Read-across; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	> 100 mg/l	48 h	Daphnia magna	Static system		Read-across; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	EU Method C.3	151 mg/l	72 h	Desmodesmus subspicatus			Read-across; GLP

#### Carbon black

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/l	96 h	Danio rerio	Static system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	EC50	OECD 202	> 5600 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 10000 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity aquatic micro-organisms	EC10	TTC-test	800 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Enzyme effect

#### zeolites

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	NOEC	EPA 660/3 - 75/009	> 680 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	2808 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	18 mg/l - 34 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Nominal concentration
	NOEC	OECD 201	10 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Nominal concentration
Long-term toxicity fish	NOEC	US EPA	> 86.7 mg/l	30 day(s)	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Long-term toxicity aquatic crustacea	NOEC	OECD 211	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Nominal concentration

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# 2K FIX CURATIVE

## silicon dioxide

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 1000 mg/l	96 h	Danio rerio	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EC50	OECD 201	> 173.1 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	173.1 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	68 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	NOEC	OECD 209	2500 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

## Talc (Mg3H2(SiO3)4)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ECOSAR v1.00	89581 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity crustacea	LC50	ECOSAR v1.00	36812 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	7203 mg/l	96 h	Algae		Fresh water	QSAR
	NOEC	ECOSAR v1.00	918 mg/l	30 day(s)	Algae		Fresh water	QSAR
Long-term toxicity fish	NOEC	ECOSAR v1.00	5980 mg/l	30 day(s)	Pisces		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOEC	ECOSAR v1.00	1460 mg/l	30 day(s)	Daphnia sp.		Fresh water	QSAR

## Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

### 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

#### Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4-D	9 %; Oxygen consumption	28 day(s)	Read-across

### Talc (Mg3H2(SiO3)4)

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	18.602 h	1.5E6 /cm <sup>3</sup>	QSAR

## Conclusion

### Water

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

### 2K FIX CURATIVE

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

### 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

#### Log Kow

Method	Remark	Value	Temperature	Value determination
EPIWIN		-2.1	25 °C	Calculated

### Carbon black

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

Publication date: 2024-07-09

# 2K FIX CURATIVE

## zeolites

### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.59 - 0.95; Fresh weight	28 day(s)		Experimental value

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

## silicon dioxide

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	3.162 l/kg			QSAR

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

## Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

### 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.5	Calculated value

## zeolites

#### (log) Koc

Parameter	Method	Value	Value determination
			Data waiving

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
	0.00 %		0.31 %	59.79 %	39.9 %	Calculated value

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	0 %	0 %	39.3 %	56 %	4.72 %	QSAR

## Conclusion

Contains component(s) with potential for mobility in the soil

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

### 2K FIX CURATIVE

#### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### Groundwater

Groundwater pollutant

### 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

#### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### Groundwater

Groundwater pollutant

### Carbon black

#### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Publication date: 2024-07-09

# 2K FIX CURATIVE

## zeolites

### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## silicon dioxide

### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

### Water ecotoxicity pH

pH shift

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

##### European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

#### 14.1. UN number or ID number

Transport	Not subject
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#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

#### 14.4. Packing group

Packing group	
Labels	

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

#### 14.7. Maritime transport in bulk according to IMO instruments

Annex II of MARPOL 73/78	Not applicable, based on available data
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## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
< 0.3 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

Publication date: 2024-07-09



# 2K FIX CURATIVE

## REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

## REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· 1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	<ol style="list-style-type: none"> <li>Shall not be used in: <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> </li> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>— present an aspiration hazard and are labelled with H304,</li> </ul> </li> <li>Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</li> <li>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: <ol style="list-style-type: none"> <li>lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</li> <li>grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</li> <li>lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</li> </ol> </li> </ol>

### National legislation Belgium

#### 2K FIX CURATIVE

No data available

### National legislation The Netherlands

#### 2K FIX CURATIVE

Waterbezuwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
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### National legislation France

#### 2K FIX CURATIVE

No data available

### National legislation Germany

#### 2K FIX CURATIVE

WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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#### 1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

TA-Luft	5.2.5
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#### Carbon black

TA-Luft	5.2.1
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#### zeolites

TA-Luft	5.2.1
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#### silicon dioxide

TA-Luft	5.2.1
TRGS900 - Risiko der Fruchtschädigung	Kieselsäuren, amorphe; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden

#### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

TA-Luft	5.2.1
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### National legislation Austria

#### 2K FIX CURATIVE

No data available

### National legislation United Kingdom

#### 2K FIX CURATIVE

No data available

### Other relevant data

#### 2K FIX CURATIVE

No data available

#### Carbon black

TLV - Carcinogen	Carbon black; A3
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IARC - classification	2B; Carbon black
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# 2K FIX CURATIVE

## zeolites

IARC - classification	3; Zeolites other than erionite
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## silicon dioxide

IARC - classification	3; Silica
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## Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

TLV - Carcinogen	Talc: Containing no asbestos fibers; A4
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	Talc: Containing asbestos fibers; A1
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IARC - classification	3; Talc
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## 15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under section 3:

H319 Causes serious eye irritation.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BEI	Biological Exposure Indices
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC10	Effect Concentration 10 %
EC50	Effect Concentration 50 %
ERC50	EC50 in terms of reduction of growth rate
GLP	Good Laboratory Practice
LC0	Lethal Concentration 0 %
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
LOAEC/LOAEL	Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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