

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

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

### 1.1 Product identifier

Remove AD(hesive) 200

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

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

#### Supplier

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours  
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard components for labelling

Depanol 1 ; CAS No. : 1329-99-3

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6

TURPENTINE, OIL ; CAS No. : 8006-64-2

##### Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water/....

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Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Depanol 1 ; REACH No. : 01-2119969963-17-XXXX ; EC No. : 939-409-2; CAS No. : 1329-99-3

Weight fraction :  $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

2-(2-BUTOXYETHOXY)ETHANOL ; REACH No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319  
Substance with a common (EC) occupational exposure limit value.

POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24-XXXX ; EC No. : 629-764-9; CAS No. : 164524-02-1

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE ; REACH No. : 01-2119489411-37-XXXX ; EC No. : 239-854-6; CAS No. : 15763-76-5

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ORANGE, SWEET, EXT. ; REACH No. : 01-2119493353-35-XXXX ; EC No. : 232-433-8; CAS No. : 8028-48-6

Weight fraction :  $\geq 0,25 - < 0,5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

TURPENTINE, OIL ; REACH No. : 01-2119553060-53-XXXX ; EC No. : 232-350-7; CAS No. : 8006-64-2

Weight fraction :  $\geq 0,1 - < 0,5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

#### Further ingredients

Part of the orange peel extract: D-LIMONENE ; REACH No. : 01-2119529223-47-XXXX ; EC No. : 227-813-5; CAS No. : 5989-27-5

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

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Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
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Version (Revision) : 4.0.0 (3.0.1)

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

##### Unsuitable extinguishing media

Full water jet

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

##### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>) , Sulphur oxides

#### 5.3 Advice for firefighters

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

#### 5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product.

#### 6.2 Environmental precautions

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

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

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed.

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

Keep/Store only in original container. Protect against : Frost .

##### Hints on joint storage

Storage class (TRGS 510) : 10

#### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

### SECTION 8: Exposure controls/personal protection

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

## 8.1 Control parameters

### Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 67 mg/m<sup>3</sup>  
Peak limitation : 1,5(I)  
Remark : Y  
Version : 23.06.2022

Limit value type (country of origin) : STEL ( EC )  
Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 20.06.2019

Part of the orange peel extract - /Skin allergenic (fragrance) substance: d-Limonene ; CAS No. : 5989-27-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 5 ppm / 28 mg/m<sup>3</sup>  
Peak limitation : 4 (II)  
Remark : H, Sh, Y  
Version : 27.10.2020

### DNEL-/PNEC-values

#### DNEL/DMEL

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 101,2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 20 mg/kg

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
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Version (Revision) : 4.0.0 (3.0.1)

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6  
Limit value type : DNEL Consumer (local)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 92,9 µg/cm<sup>2</sup>

Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 7,78 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 4,44 mg/kg bw

Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 4,44 mg/kg bw

Limit value type : DNEL worker (local)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 185,8 µg/cm<sup>2</sup>

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 31,1 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 8,89 mg/kg

## PNEC

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 5,4 µg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Limit value : 5,77 µg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,54 µg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 1,3 mg/kg dw  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 0,13 mg/kg dw  
Limit value type : PNEC (Soil)  
Limit value : 0,261 mg/kg dw

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

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Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)



Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

## Skin protection

**Hand protection**



**Suitable gloves type** : EN 374.  
**Suitable material** : NBR (Nitrile rubber)  
**Breakthrough time** : 480 min.  
**Thickness of the glove material** : 0.4 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Respiratory protection

**Remark**

Usually no personal respirative protection necessary.

## General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

### 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid

**Colour** : yellow

#### Odour

characteristic

#### Safety characteristics

<b>Melting point/freezing point</b> :	( 1013 hPa )			not determined
<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	approx.	100 °C	
<b>Flash point</b> :		>	100 °C	DIN EN ISO 13736
<b>Auto-ignition temperature</b> :			none	
<b>Flammability</b> :			non-flammable	
<b>Lower explosion limit</b> :			not determined	
<b>Upper explosion limit</b> :			not determined	
<b>Vapour pressure</b> :	( 50 °C )		not determined	
<b>Density</b> :	( 20 °C )		1,004 g/cm <sup>3</sup>	
<b>Water solubility</b> :	( 20 °C )		Weight-%	

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Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

pH :	( 20 °C )			8,4
Cinematic viscosity :	( 20 °C )	<		30 mm <sup>2</sup> /s
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :				2,2 Weight-%
Maximum VOC content (Switzerland) :				3,4 Weight-%
Taxable VOC content (Switzerland) :				1,2 Weight-%

## 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3956 mg/kg
Method :	OECD 401

##### Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Method :	OECD 402

##### Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation
Effective dose :	> 20 mg/l
Parameter :	LC50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 13,7 mg/l  
Method : OECD 403

## Corrosion

### Skin corrosion/irritation

No further relevant information available.

### Serious eye damage/eye irritation

No further relevant information available.

## Respiratory or skin sensitisation

### Skin sensitisation

May cause an allergic skin reaction.

### Sensitisation to the respiratory tract

No further relevant information available.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No further relevant information available.

### Germ cell mutagenicity

No further relevant information available.

### Reproductive toxicity

No further relevant information available.

## STOT-single exposure

No further relevant information available.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

No further relevant information available.

## 11.2 Information on other hazards

### Endocrine disrupting properties

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

### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

### Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( Depanol 1 ; CAS No. : 1329-99-3 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 1,3 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Lepomis macrochirus (Bluegill)



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 1300 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/kg  
Exposure time : 96 h  
Parameter : NOELR ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 4 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LL50 ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 5,65 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LL50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 29 mg/l  
Exposure time : 96 h  
Method : OECD 203

## Acute (short-term) toxicity to crustacea

Parameter : EC50 ( Depanol 1 ; CAS No. : 1329-99-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,48 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : NOELR ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 0,48 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EL50 ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 1,1 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EL50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 6,4 mg/l  
Exposure time : 48 h  
Method : OECD 202

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( Depanol 1 ; CAS No. : 1329-99-3 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 0,42 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : NOELR ( Depanol 1 ; CAS No. : 1329-99-3 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 2,5 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 201  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : NOELR ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 50 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EL50 ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 150 mg/l

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

Exposure time : 72 h  
Method : OECD 201  
Parameter : EL50 ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )  
Species : Desmodemus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 16,4 mg/l  
Exposure time : 72 h  
Method : OECD 201

## Toxicity to microorganisms

Parameter : EC50 ( Depanol 1 ; CAS No. : 1329-99-3 )  
Species : Bacteria toxicity  
Effective dose : 100 - 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC10 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Toxicity to microorganisms  
Effective dose : > 1995 mg/l  
Exposure time : 30 min  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l

## Sewage treatment plant

Parameter : EC50 ( Depanol 1 ; CAS No. : 1329-99-3 )  
Inoculum : Activated sludge  
Effective dose : 453 - 514 mg/l  
Exposure time : 3 h  
Method : OECD 209

## 12.2 Persistence and degradability

### Biodegradation

Parameter : BOD (% of ThOD) ( Depanol 1 ; CAS No. : 1329-99-3 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 89 %  
Test duration : 28 D  
Method : OECD 301D  
Parameter : BOD (% of COD) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 95 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301C  
Parameter : Biodegradation ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 99,8 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Parameter : Biodegradation ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Inoculum : Biodegradation

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

Evaluation parameter : Aerobic  
Degradation rate : 99,8 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Parameter : Biodegradation ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : >= 60 %  
Test duration : 28 D  
Parameter : BOD (% of ThOD) ( TURPENTINE, OIL ; CAS No. : 8006-64-2 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 76 %  
Test duration : 28 D  
Method : OECD 301D

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

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

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

Product should not be released into water without pre-treatment (biological sewage plant).

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

##### Waste codes/waste designations according to EWC/AVV

20 01 29\* - detergents containing dangerous substances.

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

### 13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
Print date : 28.02.2023

Version (Revision) : 4.0.0 (3.0.1)

- No dangerous good in sense of these transport regulations.
- 14.4 Packing group**  
No dangerous good in sense of these transport regulations.
- 14.5 Environmental hazards**  
No dangerous good in sense of these transport regulations.
- 14.6 Special precautions for user**  
None
- 14.7 Maritime transport in bulk according to IMO instruments**  
not relevant

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40, 55, 75

##### Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### Other regulations (EU)

##### Labelling for contents according to regulation (EC) No. 648/2004

< 5 % anionic surfactants  
5 - 15 % non-ionic surfactants  
Contains the following substances: D-LIMONENE

##### National regulations

##### Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

08. Occupational exposure limit values · 09. Information on basic physical and chemical properties · 11. Endocrine disrupting properties · 12. Endocrine disrupting properties · 15. Restrictions on use

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)  
AOX: adsorbierbare organisch gebundene Halogene  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)  
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)  
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung  
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)  
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)  
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)  
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)  
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)  
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous

# Safety Data Sheet

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Trade name : Remove AD(hesive) 200  
Revision date : 21.02.2023  
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Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

## 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Evaluation :

Skin Sens. 1 : Calculation method.

Aquatic Chronic 3 : Calculation method.

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

## 16.6 Training advice

None

## 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.