

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

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

### 1.1 Product identifier

Pre&Post Clean

### 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 (manufacturer/importer/only representative/downstream user/distributor)

Reuter GmbH & Co. KG

**Street :** Schimmelbuschstr. 9e

**Postal code/city :** 40699 Erkrath

**Telephone :** +49 211 730604 30

**Telefax :** +49 211 730604 77

**Information contact :** mail@reuter.works

### 1.4 Emergency telephone number

+49171 5450200

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

None

### 2.2 Label elements

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

##### Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

ETHANOL ; REACH registration No. : 01-2119457610-43-XXXX ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 50$  %

2-BUTOXYETHANOL ; REACH registration No. : 01-2119475108-36-XXXX ; EC No. : 203-905-0; CAS No. : 111-76-2

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

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Substance with a common (EC) occupational exposure limit value.

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

#### 4.1 Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice.

##### Following inhalation

In case of respiratory tract irritation, consult a physician. 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

None

#### 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

Nitrogen oxides (NO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

#### 5.3 Advice for firefighters

Apply foam in abundant quantities since some of it gets destroyed by the product. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4 Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

### 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

**Safety Data Sheet**  
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Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

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) : 12

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 380 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : Y  
Version : 07.06.2018

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : H,Y  
Version : 07.06.2018

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 14 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 07.06.2018

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 36 mg/m<sup>3</sup>  
Version : 31.01.2018

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 14 mg/m<sup>3</sup>  
Version : 31.01.2018

#### Biological limit values

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts  
Limit value : 100 mg/l  
Version : 07.06.2018

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 150 mg/g Kr  
Version : 07.06.2018

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL worker (local) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 246 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 98 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 75 mg/kg  
Limit value type : DNEL worker (systemic) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Short-term (acute)  
Limit value : 89 mg/kg  
Limit value type : DNEL worker (local) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 1900 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 950 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 343 mg/kg

#### PNEC

Limit value type : PNEC (Aquatic, freshwater) ( ETHANOL ; CAS No. : 64-17-5 )  
Limit value : 0,96 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( ETHANOL ; CAS No. : 64-17-5 )  
Limit value : 0,79 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( ETHANOL ; CAS No. : 64-17-5 )  
Limit value : 3,6 mg/l  
Limit value type : PNEC (Sediment, marine water) ( ETHANOL ; CAS No. : 64-17-5 )  
Limit value : 2,9 mg/kg  
Limit value type : PNEC (Soil) ( ETHANOL ; CAS No. : 64-17-5 )

# Safety Data Sheet

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



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

Limit value :	0,63 mg/l
Limit value type :	PNEC (Secondary poisoning) ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,72 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	580 mg/l
Limit value type :	PNEC (Aquatic, freshwater) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Limit value :	8,8 mg/l
Limit value type :	PNEC (Aquatic, marine water) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Limit value :	0,88 mg/l
Limit value type :	PNEC (Sediment, freshwater) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Limit value :	34,6 mg/kg
Limit value type :	PNEC (Soil) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Limit value :	2,33 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Limit value :	463 mg/l

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

#### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.  
**Suitable material** : NBR (Nitrile rubber)  
**Breakthrough time (maximum wearing 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



Respiratory protection necessary at: exceeding exposure limit values

**Suitable respiratory protection apparatus**  
Combination filtering device (EN 14387)  
Type : A

##### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General health and safety measures

# Safety Data Sheet

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



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

Do not put any product-impregnated cleaning rags into your trouser pockets. 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 :** Liquid

**Colour :** transparent

**Odour :** characteristic

#### Appearance

**Physical state :** Liquid

**Colour :** colourless

#### Odour

characteristic

#### Safety relevant basis data

<b>Solidifying point :</b>	( 1013 hPa )	approx.	-8,5	°C
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		72	°C
<b>Flash point :</b>			40	°C
<b>Lower explosion limit :</b>			not relevant	
<b>Upper explosion limit :</b>			not relevant	
<b>Vapour pressure :</b>	( 50 °C )	<	1000	hPa
<b>Density :</b>	( 20 °C )	approx.	0,97	g/cm <sup>3</sup>
<b>pH :</b>		approx.	10,8	
<b>Flow time :</b>	( 20 °C )	approx.	19	s
<b>Maximum VOC content (EC) :</b>			18,9	Wt %
<b>Maximum VOC content (Switzerland) :</b>			18,9	Wt %

DIN-cup 4 mm

### 9.2 Other information

Not sustaining combustion

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Under normal pressure: distillation without decomposition.

### 10.3 Possibility of hazardous reactions

Do not spray on naked flames or any incandescent material.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

Nitrogen oxides (NOx). Carbon dioxide. Carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 10470 mg/kg  
Method : OECD 401  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1250 - 1490 mg/kg  
Method : OECD 401

##### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 841 mg/kg  
Method : OECD 402  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 20 g/kg

##### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation  
Effective dose : > 20 mg/l  
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 116,9 - 133,8 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 2 - 20 mg/l  
Exposure time : 4 h

#### Irritant and corrosive effects

##### Primary irritation to the skin

No further relevant information available.

##### Irritation to eyes

No further relevant information available.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

### Sensitisation

#### In case of skin contact

No further relevant information available.

#### In case of inhalation

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 Toxicokinetics, metabolism and distribution

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

### 11.3 Other adverse effects

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

### 11.4 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 ( ETHANOL ; CAS No. : 64-17-5 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	14,2 g/l
Exposure time :	96 h
Parameter :	LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1474 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	1815 mg/l
Exposure time :	24 h
Method :	DIN 38412 / part 11
Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Species :	Fish



**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 9164 - 14536 mg/l  
Exposure time : 200 h  
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 1806 mg/l  
Exposure time : 10 d  
Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 297 mg/l  
Exposure time : 21 d  
Method : OECD 211

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 5012 mg/l  
Exposure time : 48 h

**Chronic (long-term) daphnia toxicity**

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 2 - 9,6 mg/l  
Exposure time : 10 d  
Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 21 d  
Method : OECD 204  
Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 100 mg/l  
Exposure time : 21 d  
Method : OECD 211  
Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Algae  
Effective dose : 286 mg/l  
Exposure time : 72 h  
Method : OECD 201

**Acute (short-term) algae toxicity**

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Chlorella vulgaris  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 675 mg/l  
Exposure time : 4 d  
Method : OECD 201  
Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Algae  
Effective dose : 1840 mg/l  
Exposure time : 72 h

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

Method : OECD 201  
**Bacteria toxicity**  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Bacteria toxicity  
Effective dose : 5,8 g/l  
Exposure time : 4 h

### 12.2 Persistence and degradability

According to the recipe, contains no AOX.

#### Biodegradation

Parameter : Biodegradation ( ETHANOL ; CAS No. : 64-17-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : approx. 84 %  
Test duration : 20 d  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : Biodegradation ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Inoculum : Biodegradation  
Degradation rate : 88 %  
Test duration : 20 d

### 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

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Product/Packaging disposal

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

##### Waste code product

07 06 01\* - aqueous washing liquids and mother liquors  
20 01 29\* - detergents containing dangerous substances.

##### Waste code packaging

15 01 02 - plastic packaging.

##### Waste treatment options

##### Appropriate disposal / Package

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

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
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Version (Revision) : 4.0.1 (4.0.0)

## 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)

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

No transport as bulk according to IBC Code.

## 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 of occupation

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

None

##### National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

##### Störfallverordnung

Category : P5b FLAMMABLE LIQUIDS

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.4. III) : < 1 %

##### Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly 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

03. Mixtures · 14. Transport in bulk according to Annex II of Marpol and the IBC Code · 15. Störfallverordnung · 15. Water hazard class (WGK)

### 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)

**Safety Data Sheet**  
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Trade name : Pre&Post Clean  
Revision date : 21.09.2020  
Print date : 21.09.2020

Version (Revision) : 4.0.1 (4.0.0)

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 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)  
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]**

No information available.

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

**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.