

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



REIN ABER RICHTIG

E.MAYR REINIGUNGSTECHNIK

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

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

#### 1.1 Product identifier

Trade name : **Exakt GRS Grundreinger**  
UFI : JM88-50S2-C004-8S5N

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

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

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

Company	: Werner & Mertz Prof. Vertriebs GmbH Neualmerstrasse 13 5400 Hallein	E. MAYR Reinigungstechnik Ges.m.b.H. Ortsstraße 285 A-2331 Vösendorf +431991764-0 +431699 764-33 office@e-mayr.at
Telephone	: +436245872860	
Telefax	: +43624587286535	
E-mail address	: Produktsicherheit@werner-mertz.com	
Responsible/issuing person		
Contact person	: Product development / product safety	
Web		www.reinaberrichtig.at

#### 1.4 Emergency telephone number

Vergiftungsinformationszentrale für Österreich Tel. 01/406 43 43-0

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

**Exakt GRS Grundreinger** **Item number: 0686**

Version 6.13 Revision Date 13.03.2025 Print Date 02.04.2025

Precautionary statements : P102 Keep out of reach of children.  
**Prevention:**  
 P261 Avoid breathing spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
 P310  
**Storage:**  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:  
 2-aminoethanol

Safety data sheet available on request.

**2.3 Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
 This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Aqueous solution

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-aminoethanol	141-43-5 205-483-3 603-030-00-8 01-2119486455-28	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Chronic 3; H412 Eye Dam. 1; H318  specific concentration limit STOT SE 3; H335	>= 10 - < 15

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

		>= 5 %	
		Acute toxicity estimate	
		Acute oral toxicity: 500,0 mg/kg	
		Acute inhalation toxicity: 11 mg/l	
		Acute dermal toxicity: 1.100 mg/kg	
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 5 - < 10
		Acute toxicity estimate	
		Acute oral toxicity: 1.230 mg/kg	
		1.200 mg/kg	
		Acute inhalation toxicity (dust/mist): 4,188 mg/l	
Sodium metasilicate, pentahydrate	10213-79-3  01-2119449811-37	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 5 - < 10
sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	Eye Irrit. 2; H319	>= 2 - < 5

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

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

Symptoms	:	corrosive effects Irritation
Risks	:	No information available.

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

Treatment	:	For specialist advice physicians should contact the Poisons Information Service.
-----------	---	--

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
------------------------------	---	---

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

Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## SECTION 6: Accidental release measures

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

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear respiratory protection.
----------------------	---	---

### 6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
---------------------------	---	---

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

Methods for cleaning up	:	Neutralise with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
-------------------------	---	--



**Exakt GRS Grundreinger**

**Item number: 0686**

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

	Further information: Indicative, Identifies the possibility of significant uptake through the skin
--	--

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
2-aminoethanol	Workers	Skin contact	Long-term systemic effects	1 mg/kg
	Workers	Inhalation	Long-term local effects	3,3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,24 mg/kg
	Consumers	Ingestion	Long-term systemic effects	3,75 mg/kg
	Consumers	Inhalation	Long-term local effects	2 mg/m3
	Consumers	Oral	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	1 mg/m3
	Workers	Inhalation	Long-term local effects	0,51 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,18 mg/m3
	Consumers	Inhalation	Long-term local effects	0,28 mg/m3
benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic effects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic effects	27 mg/m3

**Exakt GRS Grundreinger**

**Item number: 0686**

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	20 mg/kg bw/day
Sodiumsilicate, pentahydrate, Silicic acid (H <sub>2</sub> SiO <sub>3</sub> ), disodium salt, pentahydrate, Sodium silicate pentahydrate	Consumers	Oral	Long-term systemic effects	0,74 mg/kg
	Workers	Inhalation	Long-term systemic effects	6,22 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	1,55 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	1,49 mg/kg
	Consumers	Skin contact	Long-term systemic effects	0,74 mg/kg
2-(2-ethoxyethoxy)ethanol	Workers	Skin contact	Long-term systemic effects	50 mg/kg
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg
	Consumers	Skin contact	Long-term systemic effects	25 mg/kg
	Workers	Inhalation	Long-term local effects	37 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	18,3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	9 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	18 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	37 mg/m <sup>3</sup>
sodium p-cumenesulphonate	Workers	Skin contact	Long-term systemic effects	191 mg/kg bw/day

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

	Workers	Inhalation	Long-term systemic effects	37,4 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	3,8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	13,2 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	3,8 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	136,25 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	26,9 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term local effects	0,096 mg/cm <sup>2</sup>
	Consumers	Skin contact	Long-term systemic effects	68,1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0,048 mg/cm <sup>2</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-aminoethanol	Fresh water	0,07 mg/l
	Marine water	0,007 mg/l
	STP	100 mg/l
	intermittent release	0,028 mg/l
	Fresh water sediment	0,357 mg/kg
	Marine sediment	0,0357 mg/kg
	Soil	1,29 mg/kg
benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	intermittent release	2,3 mg/l
	STP	39 mg/l
	Fresh water sediment	5,27 mg/kg

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg
Sodiumsilicate, pentahydrate, Silicic acid (H <sub>2</sub> SiO <sub>3</sub> ), disodium salt, pentahydrate, Sodium silicate pentahydrate	Fresh water	7,5 mg/l
	Marine water	1 mg/l
	intermittent release	7,5 mg/l
	STP	1000 mg/l
2-(2-ethoxyethoxy)ethanol	Fresh water	0,74 mg/l
	Marine water	0,074 mg/l
	Fresh water sediment	2,47 mg/kg
	Marine sediment	0,274 mg/kg
	Soil	0,15 mg/kg
	STP	500 mg/l
	intermittent release	10 mg/l
sodium p-cumenesulphonate	STP	100 mg/l
	Fresh water sediment	0,862 mg/kg
	Marine sediment	0,0862 mg/kg
	Soil	0,037 mg/kg
	Fresh water	0,1 mg/l
	intermittent release	1 mg/l
	Marine water	0,01 mg/l
	Fresh water sediment	0,372 mg/kg dry weight (d.w.)
	Marine sediment	0,0372 mg/kg dry weight (d.w.)
	Soil	0,016 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Eye/face protection	:	Tightly fitting safety goggles
Hand protection	:	
Material	:	Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.  Remove and wash contaminated clothing before re-use.
Respiratory protection	:	Not required; except in case of aerosol formation.  Recommended Filter type:  ABEK-P3-filter

### SECTION 9: Physical and chemical properties

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

Physical state	:	liquid
Colour	:	colourless
Odour	:	characteristic
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No information available.
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Flash point	:	No data available
Ignition temperature	:	No data available

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Decomposition temperature	: No data available
pH	: ca. 13,1, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Vapour pressure	: No data available
Density	: ca. 1,059 g/cm <sup>3</sup>
Relative density	: No data available
Relative vapour density	: No data available
Particle characteristics	: No data available

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

### Acute toxicity

#### Product:

- Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 11,9 mg/l  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### 2-aminoethanol

##### 141-43-5:

- Acute oral toxicity : LD50 Oral (Rat): 1.515 mg/kg  
Method: OECD Test Guideline 401
- Acute toxicity estimate: 500,0 mg/kg  
Method: Converted acute toxicity point estimate
- LD50 (Rat): 1.089 mg/kg  
Method: OECD Test Guideline 401
- LD50 (Rat): 1.750 - 2.050 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 1,3 mg/l  
Exposure time: 6 h  
Remarks: Harmful by inhalation.
- LC50 (Rat): 1,487 mg/l  
Exposure time: 4 h
- Acute toxicity estimate: 11 mg/l
- LC50 (Rat): 1,3 mg/l  
Exposure time: 4 h
- Acute dermal toxicity : LD50 Dermal (Rabbit): 2.504 mg/kg  
Method: OECD Test Guideline 402
- Acute toxicity estimate: 1.100 mg/kg  
Method: Converted acute toxicity point estimate
- LD50 (Rabbit): 1.000 mg/kg

##### benzyl alcohol

##### 100-51-6:

- Acute oral toxicity : LD50 (Rat): 1.230 mg/kg
- LD50 Oral (Rabbit): 1.040 mg/kg

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

LD50 Oral (Guinea pig): 2.500 mg/kg

LD50 Oral (Rat, male): 1.620 mg/kg

Acute toxicity estimate: 1.230 mg/kg

(Rat, male): 1.045 mg/kg

Acute toxicity estimate: 1.200 mg/kg

Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat): 4,178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

LC50 (Rat): 20 mg/l  
Exposure time: 4 h

Acute toxicity estimate: 4,188 mg/l  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.000 mg/kg  
LD50 Dermal: 2.500 mg/kg

### Sodium metasilicate, pentahydrate

#### 10213-79-3:

Acute oral toxicity : LD50 (Rat): 1.152 - 1.349 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2,06 mg/l

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

### sodium p-cumenesulphonate

#### 15763-76-5:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 5 mg/l  
Exposure time: 232 min

LC50 (Rat): 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
LD50 (Rabbit): > 2.000 - 5.000 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

### Components:

#### 2-aminoethanol

##### 141-43-5:

Species : Rabbit  
Assessment : Corrosive  
Method : OECD Test Guideline 404  
Result : Corrosive

#### benzyl alcohol

##### 100-51-6:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

#### sodium p-cumenesulphonate

##### 15763-76-5:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### 2-aminoethanol

##### 141-43-5:

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

#### benzyl alcohol

##### 100-51-6:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Moderate eye irritation

#### sodium p-cumenesulphonate

##### 15763-76-5:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Moderate eye irritation  
Remarks : Causes serious eye irritation.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### 2-aminoethanol

###### 141-43-5:

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

##### benzyl alcohol

###### 100-51-6:

Test Type : Draize Test  
Species : Guinea pig  
Result : negative

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

##### sodium p-cumenesulphonate

###### 15763-76-5:

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

#### Components:

##### benzyl alcohol

###### 100-51-6:

Genotoxicity in vitro : Test Type: Micronucleus test  
Test system: human lymphoblastoid cells  
Method: OECD Test Guideline 487  
Result: negative

Test Type: Ames test  
Test system: TA98  
Method: OECD Test Guideline 471  
Result: negative

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (males)  
Method: OECD Test Guideline 474  
Remarks: negative

Test Type: in vivo assay  
Species: Drosophila melanogaster (vinegar fly) (male)  
Method: OECD Test Guideline 477  
Remarks: negative

### sodium p-cumenesulphonate

15763-76-5:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Remarks: negative

### Carcinogenicity

Carcinogenicity : Not Rated

### Components:

#### sodium p-cumenesulphonate

15763-76-5:

Species : Rat  
Application Route : Dermal  
Exposure time : 2 Years  
Activity duration : 5 h  
Method : OECD Test Guideline 453  
Result : no increase in tumors observed  
Remarks : Information taken from reference works and the literature.

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity : Not Rated

### STOT - single exposure

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Components:

#### sodium p-cumenesulphonate

15763-76-5:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

### Components:

#### sodium p-cumenesulphonate

##### 15763-76-5:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

### Components:

#### benzyl alcohol

##### 100-51-6:

Species : Rat, male and female  
NOEC : 1072 mg/l  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Method : OECD Test Guideline 412  
GLP : yes

#### sodium p-cumenesulphonate

##### 15763-76-5:

Species : Rat  
NOAEL : 763 mg/kg  
Application Route : Oral  
Target Organs : Cardio-vascular system

Species : Mouse  
NOAEL : 440 mg/kg  
LOAEL : 1.300 mg/kg  
Application Route : Dermal  
Method : OECD Test Guideline 411  
Target Organs : Skin

Aspiration toxicity : Not Rated

## 11.2 Information on other hazards

### Further information

### Product:

Remarks : No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

### Components:

#### 2-aminoethanol

##### 141-43-5:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 150 mg/l  
Exposure time: 96 h  
LC50 (Lepomis macrochirus (Bluegill sunfish)): 329 mg/l

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

	Exposure time: 96 h
	LC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
	LC50 (Carassius auratus (goldfish)): 170 mg/l Exposure time: 96 h Test Type: static test
	LC50 (Leuciscus idus (Golden orfe)): 224 mg/l Exposure time: 48 h
	LC50 (Oncorhynchus mykiss (rainbow trout)): 105 mg/l Exposure time: 96 h
	(Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 27,04 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
	NOEC (Daphnia magna (Water flea)): 0,85 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
	EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h Test Type: static test Method: EG 84/449
Toxicity to algae/aquatic plants	: EC50 (Selenastrum capricornutum): 2,8 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
	EC50 (Scenedesmus subspicatus): 22 mg/l Exposure time: 72 h Test Type: Growth inhibition
	NOEC (Selenastrum capricornutum): 1 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
	EC50 (Scenedesmus subspicatus): 15 mg/l Exposure time: 72 h
	EC50 (Selenastrum capricornutum): 2,5 mg/l Exposure time: 72 h
	EC10 (Pseudokirchneriella subcapitata (green algae)): 0,7 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to microorganisms	: EC20 (activated sludge): > 1.000 mg/l

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Exposure time: 0,5 h  
Method: OECD Test Guideline 209

EC50 (*Pseudomonas putida*): 110 mg/l  
Exposure time: 16 h  
Method: DIN 38412

EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

EC50 (*Pseudomonas putida*): 110 mg/l  
Exposure time: 17 h  
Test Type: Respiration inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 1,2 mg/l  
Exposure time: 30 d  
Species: *Oryzias latipes* (Orange-red killifish)

Toxicity to soil dwelling organisms : EC50: 4.033 mg/kg  
Exposure time: 63 d  
Species: *Eisenia fetida* (earthworms)

### benzyl alcohol

#### 100-51-6:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 460 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 400 mg/l  
Exposure time: 24 h

EC100 (*Daphnia magna* (Water flea)): 500 mg/l  
Exposure time: 48 h

LC50 (*Daphnia magna* (Water flea)): 360 mg/l  
Exposure time: 48 h

EC50 (*Daphnia magna* (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

EC50 (*Daphnia magna* (Water flea)): 66 mg/l  
Method: OECD Test Guideline 211  
GLP: yes

NOEC (*Daphnia magna* (Water flea)): 51 mg/l  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to algae/aquatic plants : EC0 (*Scenedesmus quadricauda* (Green algae)): 640 mg/l  
Exposure time: 96 h

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 310 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

- IC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC10 (Pseudomonas putida): 658 mg/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test  
Method: DIN 38412
- IC50 (Natural microorganism): 390 mg/l  
Exposure time: 24 h  
Method: ISO 8192
- (Bacteria): 390 mg/l  
Exposure time: 24 h  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: no
- IC50 (Bacteria): 2.100 mg/l  
Exposure time: 49 h  
Test Type: Respiration inhibition  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes

### **Sodiumsilicate, pentahydrate, Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt, pentahydrate, Sodium silicate pentahydrate**

#### **10213-79-3:**

- Toxicity to fish : LC50 (Brachydanio rerio): 210 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.700 mg/l  
Exposure time: 48 h

### **sodium p-cumenesulphonate**

#### **15763-76-5:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test
- LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 96 h Test Type: static test  EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EC10 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC10 (activated sludge): > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### Components:

##### **2-aminoethanol**

##### **141-43-5:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 21 d  
Method: OECD 301 A  
  
Result: rapidly biodegradable  
Biodegradation: 90 - 100 %  
Method: OECD 301 F

Biochemical Oxygen Demand (BOD) : 800 mg/g  
Incubation time: 5 d

ThOD : 1,31 g/g

##### **benzyl alcohol**

##### **100-51-6:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 30 d

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Method: OECD 301 D

Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 95 - 97 %  
Exposure time: 21 d  
Method: OECD 301 A

Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: 92 - 96 %  
Exposure time: 14 d  
Method: OECD 301 C

### sodium p-cumenesulphonate

**15763-76-5:**

Biodegradability

: Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD 301 B

## 12.3 Bioaccumulative potential

### Components:

#### 2-aminoethanol

**141-43-5:**

Bioaccumulation

: Bioconcentration factor (BCF): 1

Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water

: log Pow: -1,91 (25 °C)  
Method: OECD Test Guideline 107

log Pow: -2,3 (25 °C)  
pH: 6,8 - 7,3  
Method: OECD Test Guideline 107

#### benzyl alcohol

**100-51-6:**

Bioaccumulation

: Bioconcentration factor (BCF): 1

Partition coefficient: n-octanol/water

: log Pow: 1,10

### sodium p-cumenesulphonate

**15763-76-5:**

Bioaccumulation

: Bioconcentration factor (BCF): 3,16  
Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

### Components:

#### 2-aminoethanol

**141-43-5:**

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

Distribution among environmental compartments : Medium: Soil  
Koc: 5  
Remarks: Highly mobile in soils

Stability in soil : Remarks: Will not adsorb on soil.

### benzyl alcohol

#### 100-51-6:

Distribution among environmental compartments : Koc: 15  
Remarks: Highly mobile in soils

### sodium p-cumenesulphonate

#### 15763-76-5:

Distribution among environmental compartments : Koc: 1,25  
Method: Calculation method  
Remarks: Information taken from reference works and the literature.

Stability in soil : Remarks: Not expected to adsorb on soil.

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### Components:

#### 2-aminoethanol

##### 141-43-5:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

#### benzyl alcohol

##### 100-51-6:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### sodium p-cumenesulphonate

##### 15763-76-5:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

### Product:

Additional ecological information : There is no data available for this product.

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Waste Code	European Waste Catalogue 20 01 29* According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR	: 1760
IMDG	: 1760
IATA	: 1760

#### 14.2 UN proper shipping name

ADR	: CORROSIVE LIQUID, N.O.S. (2-aminoethanol, Sodium metasilicate, pentahydrate)
IMDG	: CORROSIVE LIQUID, N.O.S. (Ethanolamine, Sodium metasilicate, pentahydrate)
IATA	: Corrosive liquid, n.o.s.

#### 14.3 Transport hazard class(es)

ADR	: 8
IMDG	: 8
IATA	: 8

#### 14.4 Packing group

ADR	
Classification Code	: C9
Packaging group	: III
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
IMDG	
Packaging group	: III
Labels	: 8
EmS Number	: F-A, S-B
IATA	
(Cargo)	: Corrosive liquid, n.o.s.
Packaging group	: III
Labels	: 8

#### 14.5 Environmental hazards

ADR	
Environmentally hazardous	: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



REIN ABER RICHTIG

E.MAYR REINIGUNGSTECHNIK

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

### IMDG

Marine pollutant : no

### IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

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

For personal protection see section 8.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

: Directive 96/82/EC does not apply

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: : portionClass 1: 17 %  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 14 %  
563,21 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 14 %  
148,26 g/l  
VOC content valid only for coating materials used on wood surfaces

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



REIN ABER RICHTIG

E.MAYR REINIGUNGSTECHNIK

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

according to Detergents Regulation EC 648/2004 : perfumes, BENZYL ALCOHOL

GISBAU (D) : GG 80

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
STOT SE : Specific target organ toxicity - single exposure  
2006/15/EC : Europe. Indicative occupational exposure limit values  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / STEL : Short term exposure limit

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

## Exakt GRS Grundreinger

Item number: 0686

Version 6.13

Revision Date 13.03.2025

Print Date 02.04.2025

High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 4	H332
Skin Corr. 1A	H314
STOT SE 3	H335

#### Classification procedure:

Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG\_EU / EN

500000000921