

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## aer vue glass

Revision date: 24.04.2020

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

#### 1.1. Product identifier

aer vue glass

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

##### Use of the substance/mixture

Cleaning agent

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

Company name: aer GmbH  
 Street: Marxergasse 1B  
 Place: A-1030 Wien  
 Telephone: +43 (0)6642 307667  
 e-mail: office@theaer.com  
 e-mail (Contact person): michael.bartenstein@gmail.com  
 Internet: www.theaer.com

#### 1.4. Emergency telephone number:

Vergiftungsinformationszentrale Wien (VIZ): +43 1 406 43 43 (0-24Uhr)

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of waste according to applicable legislation.

#### 2.3. Other hazards

No information available.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
24634-61-5	potassium (E,E)-hexa-2,4-dienoate	15 - < 20 %
	246-376-1	
	019-003-00-3	
	Eye Irrit. 2; H319	
85586-07-8	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	10 - < 15 %
	287-809-4	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412	
77-92-9	Citric acid, anhydrous	5 - < 10 %
	201-069-1	
	01-2119457026-42	
	Eye Irrit. 2; H319	
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol	1 - < 5 %
	202-888-7	
	Eye Irrit. 2; H319	

Full text of H and EUH statements: see section 16.

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

5 % - < 15 % anionic surfactants, preservation agents (Potassium sorbate, BENZISOTHIAZOLINONE, OCTYLISOTHIAZOLINONE, Methylisothiazolinone).

### 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.

##### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. If experiencing respiratory symptoms: Call a doctor.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

##### After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing.

##### After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor if you feel unwell.

#### 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

Treat symptomatically.

### SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Do not breathe dust.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal. 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

#### **Advice on safe handling**

Provide adequate ventilation. Do not breathe dust. Avoid dust formation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a cool dry place.

#### **Hints on joint storage**

No information available.

#### **Further information on storage conditions**

Protect from moisture.

### 7.3. Specific end use(s)

Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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#### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
24634-61-5	potassium (E,E)-hexa-2,4-dienoate		
Consumer DNEL, long-term	dermal	local	0,17 mg/cm <sup>2</sup>
Consumer DNEL, long-term	inhalation	systemic	52,17 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	26,08 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	17,63 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	40 mg/kg bw/day
85586-07-8	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts		
Worker DNEL, long-term	dermal	systemic	4060 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	285 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	2440 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	85 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	24 mg/kg bw/day

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### PNEC values

CAS No	Substance	Value
Environmental compartment		
24634-61-5	potassium (E,E)-hexa-2,4-dienoate	
Freshwater		0,48 mg/l
Freshwater (intermittent releases)		4,8 mg/l
Marine water		0,048 mg/l
Marine water (intermittent releases)		4,8 mg/l
Freshwater sediment		1,73 mg/kg
Marine sediment		0,173 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,67 mg/kg
85586-07-8	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	
Freshwater		0,131 mg/l
Freshwater (intermittent releases)		0,036 mg/l
Marine water		0,0131 mg/l
Marine water (intermittent releases)		0,036 mg/l
Freshwater sediment		4,61 mg/kg
Marine sediment		0,461 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,35 mg/l
Soil		0,846 mg/kg
77-92-9	Citric acid, anhydrous	
Freshwater		0,44 mg/l
Marine water		0,044 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		33,1 mg/kg

### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation.

#### Protective and hygiene measures

Do not breathe dust. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Wear suitable gloves. (EN ISO 374)

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When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

### Skin protection

Use of protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:	solid	
Colour:	diverse	
Odour:	odourless	
pH-Value:		No information available.

### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not determined

### Flammability

Solid:	not determined
Gas:	not applicable

### Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

### Auto-ignition temperature

Solid:	not determined
Gas:	not applicable

Decomposition temperature:	not determined
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### Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
Density:	not determined
Water solubility:	very soluble

### Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

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### 9.2. Other information

Odour threshold: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Protect from moisture.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
24634-61-5	potassium (E,E)-hexa-2,4-dienoate				
	oral	LD50 > 2000 mg/kg	Rat	Manufacturer	
	inhalation (4 h) aerosol	LC50 > 5,15 mg/l	Rat	Manufacturer	
85586-07-8	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts				
	oral	LD50 > 300 - 2000 mg/kg	Rat	Manufacturer	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Manufacturer	
77-92-9	Citric acid, anhydrous				
	oral	LD50 5400 mg/kg	Mouse	Manufacturer	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	OECD 402
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol				
	oral	LD50 7000 mg/kg	Rat	OECD 403	
	dermal	LD50 > 2000 mg/kg	Rat	OECD 403	OECD 402

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
24634-61-5	potassium (E,E)-hexa-2,4-dienoate					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	OECD 203
	Acute crustacea toxicity	EC50 982 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Activated sludge	Manufacturer	OECD 209
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol					
	Acute fish toxicity	LC50 16,7 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer	
	Acute algae toxicity	ErC50 > 92 mg/l	72 h	Pseudokirchneriella subcapitata	Manufacturer	OECD 201
	Acute crustacea toxicity	EC50 > 96 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	Activated sludge	Manufacturer	OECD 209

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
77-92-9	Citric acid, anhydrous			
	OECD 301B	97 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).			
	OECD 301E	100 %	19	Manufacturer
	Readily biodegradable (according to OECD criteria).			
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol			
	OECD 302B	25 %	28	Manufacturer
	Not readily biodegradable (according to OECD criteria)			

### 12.3. Bioaccumulative potential

The product has not been tested.



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### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
24634-61-5	potassium (E,E)-hexa-2,4-dienoate	-1,72
85586-07-8	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	<= -2,42
77-92-9	Citric acid, anhydrous	-1,80 - -1,61
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol	-0,6

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

### Further information

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.

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**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

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

not applicable

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: 2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Regulation (EC) No. 648/2004 (Detergents regulation).

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Citric acid, anhydrous

## SECTION 16: Other information

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

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SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*