

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 1 of 9

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

#### 1.1. Product identifier

RESO CLEAN

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

##### Use of the substance/mixture

Washing and cleaning products (including solvent based products)

Glass and window cleaner, containing solvents

Process categories [PROC]: 11

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

Company name: BUZIL-WERK Wagner GmbH & Co. KG

Street: Fraunhofer Str. 17

Place: D-87700 Memmingen

Telephone: +49 (0) 8331 930-6

Telefax: +49 (0) 8331 930-880

e-mail: info@buzil.de

Internet: www.buzil.com

**1.4. Emergency telephone number:** +49 (0) 8331 / 930-730

### SECTION 2: Hazards identification

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The product does not support combustion. It therefore needs not to be classified as flammable despite a flash point below 60 °C.

#### 2.2. Label elements

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

##### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

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

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 2 of 9

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64-17-5	ethanol			15 - < 20 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether			1 - < 5 %
	216-374-5	603-177-00-8	01-2119462792-32	
	Flam. Liq. 3, STOT SE 3; H226 H336			

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

**Labelling for contents according to Regulation (EC) No 648/2004**  
perfumes.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Do NOT induce vomiting.

### 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

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet  
alcohol resistant foam  
Carbon dioxide  
Extinguishing powder

#### Unsuitable extinguishing media

High power water jet

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

Hazardous combustion products:  
Carbon dioxide  
Carbon monoxide

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 3 of 9

### 5.3. Advice for firefighters

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

### Additional information

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

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

### 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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

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

Avoid contact with skin, eyes and clothes.

Do not mix with other chemicals.

Wear personal protection equipment (refer to section 8).

When using do not eat, drink or smoke.

Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Advice on storage compatibility

No special measures are necessary.

### 7.3. Specific end use(s)

There are no data available on the mixture itself.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 4 of 9

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

- Take off contaminated clothing.
- Wash hands before breaks and after work.
- When using do not eat, drink or smoke.

#### Eye/face protection

Eye protection: not required.

#### Hand protection

- By long-term hand contact: Wear suitable gloves.
- Suitable material: NBR (Nitrile rubber).
- Breakthrough time (maximum wearing time) >480 min.
- A survey of suitable brands with detailed information on breakthrough times is available upon request.

#### Skin protection

Wear suitable work clothing.

#### Respiratory protection

- If extensively sprayed or used with high pressure equipment: combination filter A1/P2 (EN 143, EN 14387).
- Use only in well-ventilated areas.

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour:  
Odour: Perfumes, fragrances

#### Test method

pH-Value (at 20 °C): 10,5

#### Changes in the physical state

Melting point: approx. -5 °C  
Initial boiling point and boiling range: >85 °C  
Flash point: 38,4 °C

#### Flammability

Solid: not applicable  
Gas: not applicable  
Lower explosion limits: not determined  
Upper explosion limits: not determined

#### Auto-ignition temperature

Solid: not applicable  
Gas: not applicable  
Decomposition temperature: not determined

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 5 of 9

### Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 25 °C): 0,97 g/cm<sup>3</sup>

Water solubility: completely miscible

### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic:  
(at 25 °C) <10 mPa·s

Vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Solid content: 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 hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

### 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.

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 6 of 9

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol				
	oral	LD50 >2000 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalative vapour	LC50 >20 mg/l	Rat	ATE	
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 8100 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 >10000 mg/l	Rat		

### Irritation and corrosivity

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

### 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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64-17-5	ethanol					
	Acute fish toxicity	LC50 >1000 mg/l	96 h			
	Acute algae toxicity	ErC50 >100 mg/l				
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h			
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether					
	Acute crustacea toxicity	EC50 5,465 mg/l	48 h	Daphnia magna (Big water flea)		

### 12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 7 of 9

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
64-17-5	ethanol				
	OECD 301	>60%	28		
	Readily biodegradable (according to OECD criteria).				
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether				
	OECD 301	>70	28		
	Readily biodegradable (according to OECD criteria).				

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether	<1

### BCF

CAS No	Chemical name	BCF	Species	Source
1569-02-4	1-ethoxy-2-propanol, 1-ethoxypropan-2-ol, 2PG1EE, propylene glycol monoethyl ether	3,16		

### 12.4. Mobility in soil

The product has not been tested.

### 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. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

#### Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

#### Contaminated packaging

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

No dangerous good in sense of these transport regulations.

### Inland waterways transport (ADN)

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 8 of 9

- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- Marine transport (IMDG)**
- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- Air transport (ICAO-TI/IATA-DGR)**
- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- 14.5. Environmental hazards**
- ENVIRONMENTALLY HAZARDOUS: no
- 14.6. Special precautions for user**  
No special measures are necessary.
- 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

2010/75/EU (VOC): <30%

#### Additional information

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

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)



# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## RESO CLEAN

Revision date: 04.08.2017

G515

Page 9 of 9

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 13: Treatment of articles by dipping and pouring

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH210	Safety data sheet available on request.

### Further Information

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.

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