

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## SO-KLAR

Compilation date: 20.10.2017  
Revision date: 07.12.2017

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

#### 1.1 Product identifier

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#### 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: Arcora International GmbH  
Street: Marsstraße 9  
Place: 85609 Aschheim by Munich  
Germany  
Tel: +49 (0)89 / 14 33 29 3-0  
Fax: +49 (0)89 / 14 33 29 3-29  
E-Mail: info@arcora.de

1.4 Emergency telephone number + 49 (0) 89 / 14 33 29 3-10

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Hazard categories:  
Flammable liquid: Flam. Liq. 3  
Hazard Statements:  
Flammable liquid and vapour.

#### 2.2 Label elements

Signal word: Warning  
Pictograms: GHS02



#### Hazard statements

H226 Flammable liquid and vapour.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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### 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

### 3.1 Mixtures

EG-no.	Chemical name	Quantity
CAS-no.		
Index-no.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH-no.		
200-578-6	Ethanol (see ethyl alcohol)	10 - < 15 %
64-17-5		
603-002-00-5	Acute Tox. 4, Eye Dam. 1; H302 H318	
01-2119457610-43		

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

## 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

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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

### 5.3 Advice for firefighters

Emergency cooling must be provided for in case of a fire in the vicinity.

### 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.

Use personal protection equipment.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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### 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.

Storage class nach TRGS 510: 3

### 7.3 Specific end uses

GISCODE/product-code: GGL 10

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure limits (TRGS 900)

CAS-No.	Substance	ppm	mg/m <sup>3</sup>	F/m <sup>3</sup>	Peak limit.	Child
64-17-5	Ethanol	500	960		2(II)	

### 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

Wear eye protection/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.  
Suitable material: NBR (Nitrile rubber).  
Breakthrough time (maximum wearing time) >480 min.

#### Skin protection

Wear suitable work clothing.

#### Respiratory protection

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state: liquid  
Colour:  
Odour: Perfumes, fragrances

pH-value (at 20 °C): 9,5- 10,5

Test method

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### Changes in the physical state

Melting point: approx. 0 °C  
Initial boiling point and boiling range: >80 °C  
Flash point: 33 °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  
Vapour pressure: not determined  
Density (bei 25 °C): 0,98 g/cm<sup>3</sup>  
Water solubility: completely miscible  
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.

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### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

CAS-Nn.	Chemical name				
	Exposure route	Method	Dose	Species	Source
64-17-5	Ethanol (see ethyl alcohol)				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	inhalative vapour	LD50	> 20 mg/l	Rat	ATE

## SECTION 12: Ecological information

### 12.1 Toxicity

CAS-no.	Chemical name					
	Aquatic Toxicity	Method	Dose	[h]   [d]	Species	Source
64-17-5	Ethanol (see ethyl alcohol)					
	Acute fish toxicity	LC50	> 1000 mg/kg	96 h		
	Acute alga toxicity	ErC50	> 100 mg/kg			
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h		

### 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.

CAS-no.	Chemical name				
	Method	Value	d	Source	
	Evaluation				
64-17-5	Ethanol (see ethyl alcohol)				
	OECD 301	> 60 %	28		
	Readily biodegradable (according to OECD criteria).				

### 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.

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### 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

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

##### 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

Delivery to an approved waste disposal company.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

14.1 UN-number No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

14.3 The transport hazard class

14.4 Packing group

#### Other relevant information about land transport

lapse

#### Inland waterways transport (ADN)

14.1 UN-number No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

14.3 The transport hazard class

14.4 Packing group

#### Other relevant information about Inland waterways transport

lapse

#### Marine transport (IMDG)

14.1 UN-number No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

14.3 The transport hazard class

14.4 Packing group

#### Other relevant information about marine transport

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lapse

### Air transport (ICAO)

**14.1 UN-number** No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

**14.3 The transport hazard class**

**14.4 Packing group**

**Other relevant information about air transport**

lapse

**14.5 Special precautions for user**

No information available.

**14.6 Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.7 Transport in bulk according to Annex II of MARPOL73/78 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 - 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%



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

PROC 1: Use in closed processes.

PROC 8 Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

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 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.

### 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.