

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 1 of 14

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

#### 1.1. Product identifier

BUG OUT

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

##### Use of the substance/mixture

Cleaning agent, alkaline.

##### Uses advised against

Any non-intended use.

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

Company name:	carparts GmbH	
Street:	Vietorstraße 87	
Place:	D-51103 Köln	
Telephone:	+49 (0)221 28 58 58 -58	Telefax: +49 (0)221 28 58 58 -99
e-mail:	info@carparts-koeln.de	
Responsible Department:	info@carparts-koeln.de	

#### 1.4. Emergency telephone number:

+49 (0)221 28 58 58 -58 (9:00-17:00 Mo-Fr)

### SECTION 2: Hazards identification

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

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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### 2.2. Label elements

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

##### Hazard components for labelling

Alcohols, C10-16, ethoxylated, sulfates, sodium salts

sodium hydroxide; caustic soda

tetrasodium ethylene diamine tetraacetate

D-Glucopyranose, oligomers, decyl octyl glycosides

**Signal word:** Danger**Pictograms:**

##### Hazard statements

H314 Causes severe skin burns and eye damage.

##### Precautionary statements

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

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 2 of 14

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P501	Dispose of contents/container to local/regional/national/international regulations.

### Special labelling of certain mixtures

EUH208 Contains citral, Orange, sweet, ext.. May produce an allergic reaction.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
68585-34-2	Alcohols, C10-16, ethoxylated, sulfates, sodium salts			12 - < 15 %
	500-223-8			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
1310-73-2	sodium hydroxide; caustic soda			=< 5 %
	215-185-5	011-002-00-6		
	Skin Corr. 1A; H314			
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)			5 - < 7 %
	271-657-0			
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1; H315 H319 H400			
64-02-8	tetrasodium ethylene diamine tetraacetate			1 - < 3 %
	200-573-9	607-428-00-2		
	Acute Tox. 4, Eye Dam. 1; H302 H318			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			1 - < 3 %
	203-905-0	603-014-00-0		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides			1 - < 3 %
	500-220-1			
	Eye Dam. 1; H318			
8028-48-6	Orange, sweet, ext.			0.2 - < 0.3 %
	232-433-8			
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H315 H317 H304 H411			
5392-40-5	citral			0.2 - < 0.3 %
	226-394-6	605-019-00-3		
	Skin Irrit. 2, Skin Sens. 1; H315 H317			

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

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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 3 of 14

5 % - < 15 % anionic surfactants, 5 % - < 15 % non-ionic surfactants, < 5 % EDTA and salts thereof, perfumes (Benzyl benzoate, Limonene, Citral, Linalool, Hexyl cinnamal).

### Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiluson spray, Pulmicort-dosage-spray. (Auxiluson and Pulmicort are registered trademarks).

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

### 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

Sand. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

#### Unsuitable extinguishing media

High power water jet

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

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 4 of 14

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

Wear personal protection equipment (refer to section 8).

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). 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.

Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

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

Wear suitable protective clothing. ( See section 8. )

Conditions to avoid: aerosol or mist formation

Avoid contact with skin, eyes and clothes.

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

Usual measures for fire prevention.

#### **Further information on handling**

Advices on general occupational hygiene: See section 8.

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

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

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

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

Do not store together with: Explosives. Gas. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate. Combustible toxic substances. Non-combustible toxic substances. Radioactive substances. Infectious substances.

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

Recommended storage temperature: 20°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

### **7.3. Specific end use(s)**

See section 1.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 5 of 14

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

### 8.2. Exposure controls



#### Appropriate engineering controls

- Provide adequate ventilation.
- Provide adequate ventilation as well as local exhaust at critical locations.
- Process within closed systems.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. After work, wash hands and face. Wash contaminated clothing prior to re-use. Street clothing should be stored separately from work clothing.

#### Eye/face protection

Wear eye/face protection. DIN EN 166

#### Hand protection

- Wear suitable gloves.
- Suitable material:
  - FKM (fluororubber). - Thickness of glove material: 0,4 mm
  - Breakthrough time  $\geq$  8 h
  - Butyl rubber. - Thickness of glove material: 0,5 mm
  - Breakthrough time  $\geq$  8 h
  - CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm
  - Breakthrough time  $\geq$  8 h
  - NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm
  - Breakthrough time  $\geq$  8 h
  - PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm
  - Breakthrough time  $\geq$  8 h
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 6 of 14

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation. and aerosol or mist formation

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

### Environmental exposure controls

No information available.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	No information available.
Odour:	characteristic
pH-Value:	>= 11

### Changes in the physical state

Melting point:	No information available.
Initial boiling point and boiling range:	105 °C
Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	No information available.
Flash point:	97 °C
Sustaining combustion:	No data available

### Flammability

Solid:	No information available.
Gas:	No information available.

### Explosive properties

none

Lower explosion limits:	No information available.
Upper explosion limits:	No information available.
Ignition temperature:	No information available.

### Auto-ignition temperature

Solid:	No information available.
Gas:	No information available.

Decomposition temperature: No information available.

### Oxidizing properties

none

Vapour pressure: (at 20 °C) No information available.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BUG OUT

Revision date: 05.07.2018

Product code:

Page 7 of 14

Vapour pressure: (at 50 °C)	No information available.
Density (at 20 °C):	No information available.
Bulk density:	No information available.
Water solubility:	No information available.
<b>Solubility in other solvents</b> No information available.	
Partition coefficient:	No information available.
Viscosity / dynamic:	No information available.
Viscosity / kinematic:	No information available.
Flow time:	No information available.
Vapour density:	No information available.
Evaporation rate:	No information available.
Solvent separation test:	No information available.
Solvent content:	No information available.

#### **9.2. Other information**

Solid content: No information available.

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No information available.

#### **10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

#### **10.3. Possibility of hazardous reactions**

Refer to chapter 10.5.

#### **10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

#### **10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

#### **10.6. Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Toxicokinetics, metabolism and distribution**

No information available.

##### **Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)				
	oral	LD50 mg/kg	>5000	Rat.	SDS external

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BUG OUT

Revision date: 05.07.2018

Product code:

Page 8 of 14

64-02-8	tetrasodium ethylene diamine tetraacetate				
	oral	LD50 >1780-<2 000 mg/kg	Rat	ECHA Dossier	
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides				
	oral	LD50 >2000 mg/kg	Rat.	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit.	ECHA Dossier	
5392-40-5	citral				
	oral	LD50 >5000 mg/kg	Rat.	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat.	ECHA Dossier	

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

Contains citral, Orange, sweet, ext.. May produce an allergic reaction.

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

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

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve:

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. ; Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies) ; Species: Mouse. ; Exposure duration: 2 years; Result: NOAEC = 125 ppm; Literature information: ECHA Dossier; Reproductive toxicity: Method: other guideline: National Toxicology Programme Continuous Breeding Protocol ; Species: Mouse. ; Exposure duration: 90 d. Results: NOAEL = 720 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) ; Species: Rabbit. ; Exposure duration: 13 d. Results: NAOEL = 100 ppm. Literature information: ECHA Dossier

#### 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.

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat ;Exposure duration: 90 d. Result: NOAEL =< 69 mg/kg; AllgK267153: ECHA Dossier; Subchronic dermal toxicity: Method: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study); Species: Rabbit (male/female). ; Exposure duration: 90 d. Result: NOAEL => 150 mg/kg; Literature information: ECHA Dossier

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BUG OUT

Revision date: 05.07.2018

Product code:

Page 9 of 14

#### Aspiration hazard

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1310-73-2	sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 45,4 mg/l	96 h	Onchorhynchus mykiss	IUCLID	
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)					
	Acute fish toxicity	LC50 4 mg/l	96 h		SDS external	
	Acute algae toxicity	ErC50 2,3 mg/l	96 h		SDS external	
	Acute crustacea toxicity	EC50 2,39 mg/l	48 h		SDS external	
64-02-8	tetrasodium ethylene diamine tetraacetate					
	Acute fish toxicity	LC50 121 mg/l	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute crustacea toxicity	EC50 625 mg/l	48 h	Daphnia magna	ECHA Dossier	
68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides					
	Acute fish toxicity	LC50 180 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 37 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 100 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(>560 mg/l)		Pseudomonas putida (6h)	ECHA Dossier	
5392-40-5	cital					
	Acute fish toxicity	LC50 6,78 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA Dossier	
	Acute algae toxicity	ErC50 103,8 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 6,8 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(160 mg/l)	0,5 h	Activated sludge	ECHA Dossier	

#### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)			
		74%	30	SDS external
	Easily biodegradable (concerning to the criteria of the OECD)			
68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides			
	OECD 301E / EEC 92/69 annex V, C.4-B	100%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
5392-40-5	cital			

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 10 of 14

	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	85-95%	28	ECHA Dossier
	Product is biodegradable.			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81 (25°C)
5392-40-5	citral	2,76

### 12.4. Mobility in soil

No information available.

### 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

#### Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

#### List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

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>	UN 1824
<b>14.2. UN proper shipping name:</b>	SODIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## BUG OUT

Revision date: 05.07.2018

Product code:

Page 11 of 14



Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Marine pollutant: NO  
 Special Provisions: -  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B

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

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: A3 A803

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BUG OUT

Revision date: 05.07.2018

Product code:

Page 12 of 14

Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

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

not relevant

### 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):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

##### Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
REACH 1907/2006 Appendix XVII, No (mixture): 3

##### National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	2 - clearly water contaminating

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Rev. 1,0 - 18.09.2017

Rev. 2,0; 05.07.2018, Changes in chapter: 1-16.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
 AGW: Arbeitsplatzgrenzwert  
 AVV: Abfallverzeichnisverordnung  
 CAS Chemical Abstracts Service  
 CLP: Classification, Labelling and Packaging of substances and mixtures  
 DNEL: Derived No Effect Level  
 d: day(s)  
 EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BUG OUT

Revision date: 05.07.2018

Product code:

Page 13 of 14

EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 ECHA: European Chemicals Agency  
 EWC: European Waste Catalogue  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 h: hour  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect level  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS Technische Regeln fuer Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds  
 VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe  
 WGK: Wassergefaehrdungsklasse

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

Classification	Classification procedure
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**BUG OUT**

Revision date: 05.07.2018

Product code:

Page 14 of 14

EUH208 Contains citral, Orange, sweet, ext.. May produce an allergic reaction.

**Further Information**

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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.)*