

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 1 of 14

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

1.1 Product identifier

RAISON

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)
Stripper, corrosive, containing solvents with skin absorptive substances
Process categories [PROC]: 8, 10

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:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard components for labelling:
2-aminoethanol, (ethanolamine)

Signal word: Danger

Pictograms: GHS05



Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 2 of 14

Hazard statements

- H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P310 Immediately call a POISON CENTER/doctor.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures

- EUH208 Contains Limonene. 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

3.1 Mixtures

Hazardous components

EG-no.	Chemical name	Anteil
CAS-no.		
Index-no.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH-no.		
203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	5 - < 10 %
112-34-5		
603-096-00-8	Eye Irrit. 2; H319	
01-2119475104-44		
202-859-9	benzyl alcohol	1 - < 5 %
100-51-6		
603-057-00-5	Acute Tox. 4, Acute Tox. 4; H302 H332	
01-2119492630-38		
205-483-3	2-Amino-ethanol (cf. ethanolamine)	1 - < 5 %
141-43-5		
603-030-00-8	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT SE 3; H302 H312 H332 H314 H335	
01-2119486455-28		
239-854-6	Sodium cumenesulfonate	1 - < 5 %
15763-76-5		
	Eye Irrit. 2; H319	
01-2119489411-37		

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 3 of 14

229-912-9	Disodium metasilicate	1 - < 5 %
6834-92-0		
014-010-00-8	Skin Corr. 1B, STOT SE 3; H314 H335	
01-2119449811-37		
203-905-0	2-Butoxy-ethanol (cf. butylglycol)	1 - < 5 %
111-76-2		
603-014-00-0	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H312 H332 H315 H319	
01-2119475108-36		
	Alkylpolyethoxilate	1 - < 5 %
68439-46-3		
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	
215-185-5	Sodiumhydroxide	< 1 %
1310-73-2		
011-002-00-6	Skin Corr. 1A; H314	
01-2119457892-27		
227-813-5	(R)-p-Mentha-18-dien	< 1 %
5989-27-5		
601-029-00-7	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H226 H315 H317 H304 H400 H410	
01-2119529223-47		

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

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

< 5 % non-ionic surfactants, perfumes (Benzyl alcohol, Limonene)

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 4 of 14

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

5.3 Advice for fire-fighters

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 (see section 8).
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 5 of 14

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 (see section 8).
When using do not eat, drink or smoke.
Use only in well-ventilated areas.
Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

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 after TRGS 510: 8B

7.3 Specific end uses

GISCODE/product-code: GG 90

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (TRGS 900)

CAS-No.	Chemical name	ppm	mg/m ³	F/m ³	Limit	Kind
5989-27-5	(R)-p-Mentha-1,8-dien (D-Limonen)	5	28		4(II)	
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67		1,5(I)	
141-43-5	2-Amino-ethanol	2	5,1		2(I)	
111-76-2	2-Butoxyethanol	10	49		4(II)	

Biologische limit values (TRGS 903)

CAS-No.	Substance	Parameter	Limit value	Distinctive - material	Samples - time
111-76-2	2-Butoxyethanol	Butoxyessig acid	100 mg/l	U	c

DNEL/DMEL-value

CAS-No.	Substance	Exposure route	Effect	Value
15763-76-5	sodium cumene sulfonate			
Worker DNEL, longterm		Dermal	Systemic	7,6 mg/kg KG/d
Worker DNEL, longterm		Inhalation	Systemic	53,6 mg/m ³
Consumer DNEL, longterm		Dermal	Systemic	3,8 mg/kg KG/d
Consumer DNEL, long-term		Inhalation	Systemic	13,2 mg/m ³

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 6 of 14

Consumer DNEL, long-term	Oral	Systemic	3,8 mg/kg KG/d
--------------------------	------	----------	----------------

PNEC-value

CAS-no.	Substance	Value
15763-76-5	Sodium cumenesulfonate	100 mg/l
Micro-organisms in sewage treatment plants (STP)		100 mg/l

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.
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

Use only in well-ventilated areas.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Farbe:
Odour: Perfumes, fragrances

pH-value (at 20 °C): 13,2 – 13,5

Test method

Changes in the physical state

Melting point: approx. 0 °C
Initial boiling point and boiling range: approx. 100 °C
Flash point: not applicable

Flammability

Solid: not applicable

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 7 of 14

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

Oxidizing properties

Not oxidising.

Vapour pressure: not determined
Density (at 25 °C): 1,06 g/cm³
Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient: not determined
Dyn. Viscosity (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

Exothermic reaction with: Acid

10. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4 Conditions to avoid

The product is stable under storage at normal ambient temperatures.

10.5 Incompatible materials

Acid

10.6 Hazardous decomposition products

No known hazardous decomposition products.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 8 of 14

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

CAS-No.	Chemical				
	Exposure route	Method	Dose	Species	Source
112-34-5	2-(2-Butoxyethoxy)ethanol (cf. Butyldiglycol)				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	Inhalative vapour	LC50	> 20 mg/l	Rat	ATE
100-51-6	benzyl alcohol				
	oral	LD50	1230 mg/kg	Rat	
	dermal	LD50	2000 mg/kg	Rabbit	
	Inhalative vapour	ATE	11 mg/l		
	Inhalative aerosol	ATE	1,5 mg/l		
141-43-5	2-Amino-ethanol (cf. ethanolamine)				
	oral	LD50	1515 mg/kg	Rat	
	dermal	LD50	1025 mg/kg	Rabbit	IUCLID
	Inhalative vapour	LC50	11 mg/l		
	Inhalative aerosol	LC50	1,5 mg/l		
15763-76-5	Sodiumcumenesulfonate				
	oral	LD50	> 7000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	
	Inhalative vapour	LC50	> 20 mg/l	Rat	ATE
	inhalativ Aerosol	LC50	> 5 mg/l	Rat	ATE
6834-92-0	Disodiummetasilicate				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	Inhalative aerosol	LC50	> 5 mg/l	Rat	ATE
111-76-2	2-Butoxy-ethanol (cf. Butylglycol)				
	oral	LD50	500 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	Inhalative vapour	LC50	> 20 mg/l	Rat	ATE
	Inhalative aerosol	ATE	1,5 mg/l		
68439-46-3	Alkylpolyethoxilate				
	oral	LD50	> 2000 mg/kg	Rat	OECD 401
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	Inhalative aerosol	LC50	> 20 mg/l	Rat	ATE
1310-73-2	Sodiumhydroxide				
	oral	LD50	> 2000 mg/kg	Rat	ATE
	dermal	LD50	> 2000 mg/kg	Rat	ATE
	Inhalative aerosol	LC50	> 20 mg/l	Rat	ATE

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 9 of 14

5989-27-5	(R)-p-Mentha-1,8-dien				
	oral	LD50	> 2000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	IUCLID

SECTION 12: Ecological information

12.1 Toxicity

CAS-No.	Chemical name					
	Aquatic Toxicity	Method	Dose	[h] [d]	Species	Source
112-34-5	2-(2-Butoxyethoxy)ethanol (cf. Butyldiglycol)					
	Acute algae toxicity	ErC50	> 100 mg/l		Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
100-51-6	Benzylalcohol					
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas (Dickkopfritze)	
	Acute algae toxicity	ErC50	640 mg/l	96 h	Scenedesmus quadricauda	
141-43-5	2-Amino-ethanol (cf. ethanolamine)					
	Acute fish toxicity	LC50	150 mg/l	96 h	Onchorhynchus mykiss	IUCLID
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus.	
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
15763-76-5	Sodiumcumenesulfonate					
	Acute fish toxicity	LC50	>1000 mg/l	96 h		
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
	Algae toxicity	NOEC	31 mg/l	4d		
6834-92-0	Disodiummetasilicate					
	Acute fish toxicity	LC50	210 mg/l	96 h	Brachydanio rerio (Zebrafisch)	
	Acute crustacea toxicity	EC50	1700 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
111-76-2	2-Butoxy-ethanol (cf. butylglycol)					
	Acute fish toxicity	LC50	1474 mg/l	96 h	Oncorhynchus mykiss (Regenbogenforelle)	
	Acute algae toxicity	ErC50	911 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	1550 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	
68439-46-3	Alkylpolyethoxilate					
	Acute fish toxicity	LC50	1 – 10 mg/l	96 h	Brachydanio rerio (Zebrafisch)	OECD 203
	Acute bacteria toxicity		(> 1000 mg/l)			

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 11 of 14

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

070601 Wastes from organic chemical processes; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous 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

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN-number	UN 2491
14.2 UN proper shipping name	Ethanolamine, solution
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Hazard label:	8
Classification code:	C7
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 12 of 14

Other relevant information about land transport

@000000000006 E1

Inland waterways transport (ADN)

14.1 UN-number UN 2491
14.2 UN proper shipping name
Ethanolamine, solution
14.3 Transport hazard class(es)
8
14.4 Packing group
III
Hazard label: 8
Classification code: C7
Limited quantity: 5 L

Other relevant information about inland waterways transport

@000000000006 E1

Marine transport (IMDG)

14.1 UN-number UN 2491
14.2 UN proper shipping name
Ethanolamine, solution
14.3 Transport hazard class(es)
8
14.4 Packing group
III
Hazard label: 8
Special Provisions: 223
Limited quantity: 5 L
EmS: F-A, S-B

Other relevant information about marine transport

@000000000006 E1

Air transport (ICAO)

14.1 UN-number UN 2491
14.2 UN proper shipping name
Ethanolamin, solution
14.3 Transport hazard class(es)
8

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 13 of 14

14.4 Packing group

III
Hazard label: 8
Special Provisions: A3 A803
Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other relevant information about air transport

@000000000006 E1
@000000000005: Y841

14.5 Special precautions for user

Warning: strongly corrosive.

14.6 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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: 1 - slightly water contaminating

Sensibilisierende Stoffe (TRGS 907)

CAS-No.	EG-No.	Chemical name	Commission
141-43-5	205-483-3	2-Aminoethanol	Sh

15.2 Chemical safety assessment

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



RAISON

Compilation date: 17.10.2017
Revision date: 15.12.2017

Page 14 of 14

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 8 (Transfer): 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)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Limonene. May produce an allergic reaction.

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.