

Trade name: RADIKALIN

Substance number: SUB302020510000

Version: 4 / EU

Date revised: 02.02.2016

the date of issue: 09.04.07

Replaces Version: 3 / EU

Print date: 02.02.16

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

1.1. Product identifier

RADIKALIN

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

Use of the substance/preparation

Highly concentrated cleanser, especially developed for the high demands of industrial kitchens. For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1C H314
Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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**Signal word *****

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.
 EUH208 Contains Methyl trimethyl-3-[(1-oxododecyl)amino]propylammonium sulphate, May produce an allergic reaction.

Precautionary statements ***

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/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Isotridecanoethoxylate;2-Aminoethanol

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******2-(2-Butoxyethoxy)ethanol**

CAS No. 112-34-5
 EINECS no. 203-961-6
 Registration no. 01-2119475104-44-0005
 Concentration ≥ 10 < 25 %

Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319

2-Butoxyethanol

CAS No. 111-76-2
 EINECS no. 203-905-0
 Registration no. 01-2119475108-36-XXXX
 Concentration ≥ 1 $< 7,5$ %

Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Acute Tox. 4 H302
 Eye Irrit. 2 H319

2-Aminoethanol

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CAS No.	141-43-5				
EINECS no.	205-483-3				
Concentration	>=	3	<	5	%

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

Acute Tox. 4	H312
Acute Tox. 4	H302
Skin Corr. 1B	H314
Acute Tox. 4	H332

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3	H335	>= 5
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Isotridecanoethoxylate

CAS No.	POLYMER				
EINECS no.	N.A.				
Registration no.	02-2119552461-55-0000				
Concentration	>=	1	<	2,3	%

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

Eye Dam. 1	H318
Acute Tox. 4	H302

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Dam. 1	H318	>= 10 %
	H319	< 10 %

Trisodium nitrilotriacetate

CAS No.	5064-31-3				
EINECS no.	225-768-6				
Concentration	>=	0,1	<	1	%

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

Eye Irrit. 2	H319
Carc. 2	H351
Acute Tox. 4	H302

Concentration limits (Regulation (EC) No. 1272/2008)

Carc. 2	H351	>= 5
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Methyl trimethyl-3-[(1-oxododecyl)amino]propylammonium sulphate

CAS No.	10595-49-0				
EINECS no.	234-204-8				
Concentration	>=	0,1	<	1	%

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

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

NTA (nitrilotriacetic acid) and salts thereof

non-ionic surfactants

cationic surfactants

phosphates

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further ingredients:
optical brighteners
allergenic fragrances (>0,01% by weight):
CITRAL

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. No special measures required.

After skin contact

In case of contact with skin wash off with warm water. No special measures required.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Eye treatment by an Occulist.

After ingestion

Rinse mouth thoroughly with water. If swallowed, seek medical advice immediately and show this container or label.

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Compatible with all usual extinguishing media.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

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Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form** liquid, clear**Colour** green**Odour** Product specific**pH value**

Value	appr.	12,5	
Concentration/H ₂ O		100	%
Temperature		20	°C

Freezing point

Value	appr.	-4	to	4	°C
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Sublimation point

Remarks not determined

Initial boiling point and boiling range

Value	appr.	100	°C
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Flash point

Value	>	100	°C
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Evaporation rate

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

Not ignitable

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value	1,024	g/cm ³
Temperature	20	°C

Solubility in water

Remarks Completely miscible

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Auto-ignition temperature

Remarks not determined

Combustion factor

Remarks not determined

Decomposition temperature

Remarks No decomposition if used as prescribed.

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Viscosity**dynamic**

Value	<	20		mPa.s
Temperature		20	°C	

Oxidising properties

evaluation None known

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Saturation Concentration

Remarks not determined

Critical point

Remarks not determined

Dissociation constant

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with impurities.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep at temperature not exceeding 30 °C.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

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ATE	8.152,78	mg/kg
	98	

Method	calculated value (Regulation (EC) No. 1272/2008)
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Acute oral toxicity (Components)**2-(2-Butoxyethoxy)ethanol**

Species	rat	
LD50	> 2000	mg/kg
Source	Literature value	

2-Butoxyethanol

Species	rat	
LD50	= 470	mg/kg

Acute dermal toxicity

ATE	5.927,43	mg/kg
	23	

Method	calculated value (Regulation (EC) No. 1272/2008)
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Acute dermal toxicity (Components)**2-(2-Butoxyethoxy)ethanol**

Species	rabbit	
LD50	> 2000	mg/kg
Source	Literature value	

2-Butoxyethanol

Species	rabbit	
LD50	= 220	mg/kg

Acute inhalational toxicity

ATE	> 100	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	> 20	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**2-Butoxyethanol**

Species	rat	
LC50	= 2,17	mg/l
Duration of exposure	= 4 h	

Skin corrosion/irritation

evaluation	irritant
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Serious eye damage/irritation

evaluation	irritant - risk of serious damage to eyes
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Sensitization

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

Remarks	not determined
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Reproductive toxicity

Remarks	not determined
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Carcinogenicity

Remarks	not determined
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Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

Product specific toxicological data are not known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****2-(2-Butoxyethoxy)ethanol**

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	> 100	mg/l
Source	Literature value	

2-Butoxyethanol

	= 1250	to	1490	mg/l
Duration of exposure	= 96	h		

Daphnia toxicity (Components)**2-(2-Butoxyethoxy)ethanol**

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	= 48	h
Source	Literature value	

2-Butoxyethanol

LC50	= 800	mg/l
Duration of exposure	= 48	h

Algae toxicity (Components)**2-(2-Butoxyethoxy)ethanol**

EC50	> 100	mg/l
Source	Literature value	

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

12.6. Other adverse effects

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General information

not determined

General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 20 01 29* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

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14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

Non-dangerous goods

Other information**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not determined

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****less than 5 %:**

non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof, phosphates, cationic surfactants, polycarboxylates

Further ingredients

A mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1), Terpeneols, p-tert-Butyl-alpha-methylhydrocinnamic aldehyde, Citronellal, dl-Citronellol, Dipentene, Benzyl alcohol, Citral

VOC

VOC (CH)	=	8,03	%
VOC (EU)	=	8,03	%

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2

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Skin Corr. 1B

Skin corrosion, Category 1B

Skin Irrit. 2

Skin irritation, Category 2

Skin Sens. 1

Skin sensitization, Category 1

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

IATA: International Civil Aviation Organization

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Compound

NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

IMO: International Maritime Organization

DNEL: Derived no effect level

PNEC: Predicted no effect concentration

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

EC: European Community

EU: European Union

GHS: Globally Harmonized System of classification and Labelling of Chemicals

MAK: Maximale Arbeitsplatz-Konzentration

INCI: International Nomenclature of Cosmetic Ingredients

UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

