

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 1 / 11

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

1.1 Product identifier

Schaumlöser 831

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

1.2.1 Relevant uses

For removal of cured PU foam.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ramsauer GmbH & Co KG
Sarstein 17
4822 Bad Goisern / H. / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8323
Homepage www.ramsauer.at
E-mail office@ramsauer.at

Address enquiries to

Technical information office@ramsauer.at

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

Hazard pictograms



Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements

P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 2 / 11

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
1 - <3	2-aminoethanol
	CAS: 141-43-5, EINECS/ELINCS: 205-483-3, EU-INDEX: 603-030-00-8, Reg-No.: 01-2119486455-28-XXXX
	GHS/CLP: Acute Tox. 4: H302 H312 H332 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - STOT SE 3: H335 - Aquatic Chronic 3: H412 - Met. Corr. 1: H290

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within 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 equipment.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 3 / 11

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing area.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Provide alkali-resistant floor.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 4 / 11

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
2-aminoethanol
CAS: 141-43-5, EINECS/ELINCS: 205-483-3, EU-INDEX: 603-030-00-8, Reg-No.: 01-2119486455-28-XXXX
Long-term exposure: 1 ppm, 2,5 mg/m ³ , Sk
Short-term exposure (15-minute): 3 ppm, 7,6 mg/m ³
Limestone
CAS: 1317-65-3, EINECS/ELINCS: 215-279-6
Long-term exposure: 10 mg/m ³ , inhalable dust; respirable dust: 4 mg/m ³
Silicon dioxide
CAS: 7631-86-9, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
Long-term exposure: 6 mg/m ³ , total inhalable dust

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-aminoethanol
CAS: 141-43-5, EINECS/ELINCS: 205-483-3, EU-INDEX: 603-030-00-8, Reg-No.: 01-2119486455-28-XXXX
Eight hours: 1 ppm, 2,5 mg/m ³ , H
Short-term (15-minute): 3 ppm, 7,6 mg/m ³

DNEL

Substance
2-aminoethanol, CAS: 141-43-5
Industrial, inhalative, Long-term - local effects: 3,3 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 1 mg/kg.
general population, oral, Long-term - systemic effects: 3,75 mg/kg.
general population, dermal, Long-term - systemic effects: 0,24 mg/kg.
general population, inhalative, Long-term - local effects: 2 mg/m ³ .

PNEC

Substance
2-aminoethanol, CAS: 141-43-5
sewage treatment plants (STP), 100 mg/l.
soil, 0,0367 mg/kg.
sediment (seawater), 0,0434 mg/kg.
sediment (freshwater), 0,434 mg/kg.
seawater, 0,0085 mg/l.
freshwater, 0,085 mg/l.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 5 / 11

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,4mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	white
Odor	characteristic
Odour threshold	not applicable
pH-value	ca. 10,4
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	>90
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	ca. 1,8 Vol. %
Upper explosion limit	ca. 12,2 Vol. %
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,57 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	> 190
Decomposition temperature [°C]	not determined

9.2 Other information

none

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 6 / 11

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

Reactions with acids.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 7 / 11

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
ATE-mix, inhalation (vapour), > 20 mg/L 4h.
Substance
2-aminoethanol, CAS: 141-43-5
LD50, dermal, Rat: 1000 - 2500 mg/kg.
LD50, oral, Rat: 1050 - 1550 mg/kg.
LC50, inhalation (vapour), Rat: > 1,48 mg/l (estimated).

Serious eye damage/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Skin corrosion/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Respiratory or skin sensitisation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Aspiration hazard

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.

General remarks

none

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 8 / 11

SECTION 12: Ecological information

12.1 Toxicity

Substance
2-aminoethanol, CAS: 141-43-5
LC50, (96h), Oncorhynchus mykiss: 150 mg/l.
LC50, (96h), Pimephales promelas: 2070 mg/l.
LC50, (96h), Cyprinus carpio: 349 mg/l (RL 92/69/EWG, C.1, semistatic).
LC50, (96h), Carassius auratus: 170 mg/l (APHA 1971).
EC50, (72h), Scenedesmus capricornutum: 2,5 mg/l (OECD 201).
EC50, (96h), Selenastrum capricornutum: 3,3 - 3,6 mg/l.
EC50, (72h), Scenedesmus subspicatus: 22 mg/l (RL 92/69/EWG, C.3).
EC50, (48h), Daphnia magna: 65 mg/l (RL 84/449/EWG, C.2).
EC50, (24h), Daphnia magna: 140 mg/l (OECD 202).
NOEC, (21d), Daphnia magna: 0,85 mg/l (OECD 211).
EC0, (16h), Pseudomonas putida: 110 mg/l (DIN 38412 Part 8).

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 200129*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 9 / 11

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 10 / 11

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	39 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H290 May be corrosive to metals.
H412 Harmful to aquatic life with long lasting effects.
H335 May cause respiratory irritation.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

Ramsauer GmbH & Co KG

4822 Bad Goisern / H.

Date printed 26.07.2018, Revision 26.07.2018

Version 03. Supersedes version: 02

Page 11 / 11

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Modified position

none

Copyright: Chemiebüro®