

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 1 of 9

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

### 1.1. Product identifier

RemoBacal

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

#### Use of the substance/mixture

Professional cleaners for industrial use

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

Company name:	kolb Cleaning Technology GmbH	
Street:	Karl-Arnold-Str. 12	
Place:	D-47877 Willich	
Telephone:	+49-2154-947938	Telefax: +49-2154-947947
e-mail:	info@kolb-ct.com	
Contact person:	Herr Linker	Telephone: +49-2324-97980
e-mail:	christian.linker@kolb-ct.com	
Internet:	www.kolb-ct.com	
Responsible Department:	Labor/ QS	

### 1.4. Emergency telephone number:

+49/ (0) 23 24/ 979817 (EU)  
+61 4 19 809 805 (Australia)  
+1 970 443 9233 (USA)  
Schweiz: 145

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard categories:

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Very toxic to aquatic life.

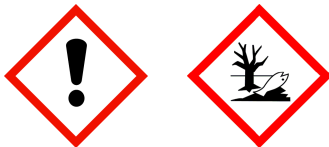
Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Signal word: Warning

Pictograms:



#### Hazard statements

H302

Harmful if swallowed.

H410

Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P391

Collect spillage.

P501

Dispose of contents/container to in accordance with local/regional/national/international regulations.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 2 of 9

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Cleaner on the basis of (according to EC Detergents Regulation 648/2004): Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane

Sum formula: RemoBacal

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	GHS Classification	
25988-97-0	Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane	10 - < 15 %
	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H302 H400 H410	
31075-24-8	Poly (oxyethylene (dimethyliminio)-ethylene (dimethyliminioethylene))-dichloride	1 - < 5 %
	Acute Tox. 4, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H332 H302 H400 H410	

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

##### Further Information

Von der Ing.G. Linker GmbH bei der BauA unter nachfolgende Nummer gelistet: BauA-Reg.: N-59296  
Use biocides safely. Always read the label and product information before use.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

##### After inhalation

Provide fresh air. Medical treatment necessary.

##### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

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

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 3 of 9

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

#### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. 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**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

#### **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**

Safe handling: see section 7

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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

No special fire protection measures are necessary.

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

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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

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

No special measures are necessary.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

##### **Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 4 of 9

drink.

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	colourless
Odour:	neutral
pH-Value (at 20 °C):	7-8

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not determined

#### 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

#### Oxidizing properties

Not oxidising.	
Vapour pressure: (at 20 °C)	not determined

Density (at 20 °C):	1,00 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	miscible

#### Solubility in other solvents

not determined	
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	23,0 mPa·s
Vapour density:	not determined
Evaporation rate:	not determined

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 5 of 9

#### 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 known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25988-97-0	Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane				
	oral	ATE 500 mg/kg			
31075-24-8	Poly (oxyethylene (dimethyliminio)-ethylene (dimethyliminioethylene))-dichloride				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

##### Irritation and corrosivity

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

##### Sensitising effects

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

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

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

##### 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.

##### Aspiration hazard

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

##### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 6 of 9

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
25988-97-0	Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane					
	Acute fish toxicity	LC50 mg/l	0,077	96 h	Oncorhynchus	
	Acute crustacea toxicity	EC50	5,7 mg/l	48 h	Daphnia Magna	
31075-24-8	Poly (oxyethylene (dimethyliminio)-ethylene (dimethyliminioethylene))-dichloride					
	Acute fish toxicity	LC50 mg/l	0,047	96 h	Oncorhynchus mykiss	
	Fish toxicity	NOEC mg/l	0,037	4 d	Oncorhynchus mykiss	
	Algea toxicity	NOEC mg/l	0,0019	5 d	Selenastrum capricornutum	
	Crustacea toxicity	NOEC mg/l	0,08	2 d	Daphnia Magna	

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 3082

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 7 of 9

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Poly(oxyethylene(dimethyliminio)-ethylene(dimethyliminioethylene))-dichloride, Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9  
Classification code: M6  
Special Provisions: 274 335 375 601  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 90  
Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Poly(oxyethylene(dimethyliminio)-ethylene(dimethyliminioethylene))-dichloride, Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9  
Classification code: M6  
Special Provisions: 274 335 375 601  
Limited quantity: 5 L  
Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9  
Special Provisions: 274, 335, 969  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-F

#### Other applicable information (marine transport)

N.O.S. (Methanamine, Nmethyl-, polymer with 2-(chloromethyl)oxirane, Poly(oxyethylene(dimethyliminio)-ethylene(dimethyliminioethylene))-dichloride).  
Meeresschadstoff (Poly(oxyethylene(dimethyliminio)-ethylene(dimethyliminioethylene))-dichloride, Methanamine, Nmethyl-, polymer with 2-(chloromethyl)oxirane)

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

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Poly(oxyethylene(dimethyliminio)-ethylene(dimethyliminioethylene))-dichloride, Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9  
Special Provisions: A97 A158 A197  
Limited quantity Passenger: 30 kg G

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 8 of 9

Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

#### 14.6. Special precautions for user

No information available.

#### 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

##### Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

##### 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

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%

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

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### 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.





CLEANING TECHNOLOGY  
Made in Germany

kolb Cleaning Technology GmbH

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### RemoBacal

Revision date: 25.01.2018

Product code: 090692-CN10

Page 9 of 9

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*