
! SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Name of product**Decalcit Super
413749**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended intended purpose(s)**

Acidic cleaner.

1.3. Details of the supplier of the safety data sheet**Manufacturer/distributor**BAYROL Deutschland GmbH
Robert-Koch-Str. 4, D-82152 Planegg
Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276
E-Mail bayrol@bayrol.de
Internet www.bayrol.de**Advice**E-mail (competent person):
ASchwarzenboeck@bayrol.de**1.4. Emergency telephone number****Emergency advice**Giftnotruf München (oder jedes andere Giftinformationszentrum)
Phone +49 (0) 89 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

C; R34

Xi; R37

R-phrases

34

Causes burns.

37

Irritating to respiratory system.

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]Hazard classes and Hazard
categories

Hazard Statements

Classification procedure

Met. Corr. 1**H290****Skin Corr. 1B****H314****STOT SE 3****H335****Hazard Statements**

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

GHS05



GHS07

Signal word

Danger

Hazard Statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statements

P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

! Hazardous ingredients for labeling

Hydrochloric acid

Special rules for supplemental label elements for certain mixtures

Contains perfume. May produce an allergic reaction.

2.3. Other hazards**Results of PBT and vPvB assessment**

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. Substances**

not applicable

3.2. Mixtures**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
68424-85-1	270-325-2	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	< 1	Xn,R21/22; C,R34; N,R50
7647-01-0	231-595-7	Hydrochloric acid	< 20	C R34; Xi R37

Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
68424-85-1	270-325-2	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	< 1	Acute Tox. 4, H302 / Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Aquatic Acute, H400 / M10
7647-01-0	231-595-7	Hydrochloric acid	< 20	Skin Corr. 1B, H314 / STOT SE 3, H335

REACH

CAS No	Name	REACH registration number
68424-85-1	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	05-2114132022-72

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Remove contaminated soaked clothing immediately and dispose it safely.
 Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary.
 Adhere to personal protective measures when giving first aid.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.
 Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.
 Refer for medical treatment.

In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.
 Call for a doctor immediately.

In case of ingestion

Do not induce vomiting.
 Call for a doctor immediately.
 Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible dangers

Risk of respiratory disorders

4.3. Indication of any immediate medical attention and special treatment needed
Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.
 Hydrogen chloride (HCl)

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting 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**

No information available.

For non-emergency personnel

Ensure adequate ventilation.

Keep people away and stay on the upwind side.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Product should not be discharged in an undiluted or non-neutralized form into sewage or the environment

6.3. Methods and material for containment and cleaning up

Dilute with plenty of water.

Neutralize with sodium carbonate or slaked lime.

Cleaning measures with respiratory protection.

Flush away residues with water.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures necessary if used correctly.

General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

Hygiene measures

Do not eat or drink when working.

Keep away from food and drink.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Keep container tightly closed.

Store at cool and aired place.

Information on storage stability

Storage time: 5 years.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Respiratory protection**

Short term: filter apparatus, combination filter E-P2

Short term: filter apparatus, combination filter E-P3

Hand protection

chemical-resistant gloves

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

Eye protection

Safety goggles

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

liquid

Colour

red

Odour

pungent

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	1,2	20 °C	10 g/l	potentiometric	
Boiling temperature / boiling range	No information available.				
Melting point / Freezing point	No information available.				
Flash point	not applicable				

	Value	Temperature	at	Method	Remark
Vapourisation rate	No information available.				
Flammable (solid)	No information available.				
Flammability (gas)	No information available.				
Ignition temperature	No information available.				
Self ignition temperature	No information available.				
Lower explosion limit	No information available.				
Upper explosion limit	No information available.				
Vapour pressure	No information available.				
Relative density	1,07 g/cm ³	20 °C		aerometric	
Vapour density	No information available.				
Solubility in water					multimiscible
Solubility/other	No information available.				
Partition coefficient n-octanol/water (log P O/W)	No information available.				
Decomposition temperature	No information available.				
Viscosity	No information available.				
Oxidising properties	No information available.				
Explosive properties	No information available.				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition can lead to the escape of irritating gases and vapours.
Corrosive to metals.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with metals, with evolution of hydrogen.
Reactions with alkalies.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials
Materials to avoid

Alkali (lye)

Chlorine

Oxidising agent

10.6. Hazardous decomposition products

Hydrogen

Hydrogen chloride (HCl)

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	corrosive			
Irritability eye	corrosive			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No mutagenity, after different in-vitro studies.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Experiences made from practice

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

Irritates respiratory tract.

Irritates mucous membranes.

Additional information

No toxic dates available.

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

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**Behaviour in sewage plant**

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

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

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Untaminated packaging may be taken for recycling.

Recommended cleansing agent

Water

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1789	1789	1789
14.2. UN proper shipping name	HYDROCHLORIC ACID	HYDROCHLORIC ACID	Hydrochloric acid
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 8

tunnel restriction code E

Classification code C1

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations (EU)**

Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Regulation (EC) No 648/2004 (Detergents regulation).

15.2. Chemical Safety Assessment

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

SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

Further information

Refer to product information paper.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.4

Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

R 37 Irritating to respiratory system.

R 50 Very toxic to aquatic organisms.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.