

Safety Data Sheet

according to Regulation (EC) No 1907/2006

00311886 / 00311918-00311924 / 00312004 / 00312213 Schnellentkalker / Quick Descaler

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H317 May cause an allergic skin reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read carefully and follow all instructions.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves and eye/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 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.

Additional advice on labelling

Labelling for contents according to regulation (EC) No 648/2004, annex 7: <5 % non-ionic surfactants.

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

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
77-92-9	Citric acid			> 30 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
110-16-7	maleic acid			5-15 %
	203-742-5	607-095-00-3		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H302 H315 H319 H317 H335			
68439-51-0	Alcohols, C12-14 ethoxylated propoxylated			< 5 %
	931-986-9		*	
	Aquatic Acute 1; H400			

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

Further Information

*Polymer

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Following inhalation: Move victim to fresh air. Consult physician.
 If unconscious place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with: Water. Seek medical attention if problems persist.

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After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Let water be drunk in little sips (dilution effect).

Call a physician immediately. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Let water be drunk in little sips (dilution effect). If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

The following symptoms may occur:

Following eye contact: Irritation to eyes

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 / Foam / Carbon dioxide (CO₂) / Dry extinguishing powder / Extinguishing powder

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

The product itself does not burn.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Wear chemical resistant suit.

In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothes. Do not breathe dust. Wear 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

Take up mechanically. Do not breathe dust.

6.4. Reference to other sections

Personal protection equipment: see section 8

Safe handling: see section 7

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

Wash hands before breaks and after work. When using do not eat, drink or smoke. Keep away from food, drink and animal feedings. Avoid dust formation.

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Advice on protection against fire and explosion

The product is not: Combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Keep only in the original container.

Hints on joint storage

Do not store together with: Base. Oxidizing agents.

7.3. Specific end use(s)

DESCALERS

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes. Avoid dust formation.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Suitable material: PVC (Polyvinyl chloride). PE (polyethylene). German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: In the case of the formation of dust. particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Granulate	
Colour:	light brown	
Odour:	characteristic	
pH-Value (at 20 °C):		not applicable
Changes in the physical state		
Melting point:		not relevant
Initial boiling point and boiling range:		not relevant
Sublimation point:		not relevant
Softening point:		not relevant
Pour point:		not relevant
Flash point:		not relevant
Flammability		
Solid:		not relevant
Gas:		not relevant

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Explosive properties

not relevant

Lower explosion limits: not relevant

Upper explosion limits: not relevant

Ignition temperature: not relevant

Auto-ignition temperature

Solid: not relevant

Gas: not relevant

Decomposition temperature: not relevant

Vapour pressure: not relevant

Vapour pressure: not relevant

Density (at 20 °C): 1,4 - 1,5 g/cm³

9.2. Other information

Solid content: 100

SECTION 10: Stability and reactivity

10.1. Reactivity

Materials to avoid: Alkalis (alkalis), concentrated.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

moisture. heat.

10.5. Incompatible materials

Alkalis (alkalis), concentrated.

Oxidizing agents, strong.

10.6. Hazardous decomposition products

The product is chemically stable under recommended conditions of storage, use and temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
77-92-9	Citric acid				
	oral	LD50 mg/kg	5400	Ratte	REACH Registered S.
110-16-7	maleic acid				
	oral	ATE	500 mg/kg		

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Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (maleic acid)

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.

SECTION 12: Ecological information

12.1. Toxicity

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77-92-9	Citric acid					
	Acute fish toxicity	LC50	440 mg/l	96 h	Leuciscus idus	MSDS
	Acute crustacea toxicity	EC50	160 mg/l	48 h		Gestis

12.2. Persistence and degradability

The surfactants contained in this mixture 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.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
77-92-9	Citric acid				
	OECD 302 B	98%	2	MSDS	
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
77-92-9	Citric acid	-1,57

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

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

Damaging effect by pH moving.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special measures are necessary.

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

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

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

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processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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