

٦

Printing date 10.01.2015

Г

Version number 3

Revision: 08.01.2015

1.1 Product identifier	
Trade name: RM 5001	
1.2 Relevant identified uses of the substance or mixture and uses advised against	
No further relevant information available.	
Application of the substance / the mixture	
Flocculant/ Flocculating agent	
Water treatment	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfred Kärcher GmbH & Co. KG	
Alfred-Kärcher-Str. 28-40	
D - 71364 Winnenden	
Postfach 160	
D - 71349 Winnenden	
Tel.: +49-7195-14-0	
Fax : +49-7195-14-2212	
www.karcher.com	
Further information obtainable from:	
Department PDE-D	
Tel.: +49-7195-14-2398	
Fax : +49-7195-14-3164 safetydata@karcher.com	
1.4 Emergency telephone number: Tel.: 0049 30 30686 790 Giftnotruf Berlin	
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008	
Met. Corr.1 H290 May be corrosive to metals.	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eve Dam. 1 H318 Causes serious eve damage.	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns.	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns. Xn; Harmful	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns. Xn; Harmful R22: Harmful if swallowed. Information concerning particular hazards for human and environment:	
Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns. Xn; Harmful R22: Harmful if swallowed.	Classifica



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

CI (C)	(Contd. of page 1
<i>Classificatio</i>	
The classific literature da	ration is according to the latest editions of the EU-lists, and extended by company and ta.
2.2 Label ele	ements
Labelling ac	cording to Regulation (EC) No 1272/2008
	is classified and labelled according to the CLP regulation.
Hazard picto	ograms
GHS05 C	SHS07
Signal word	Danger
Hazard-dete	rmining components of labelling:
	hloride sulfate
Hazard state	
H290 May b	e corrosive to metals.
	ul if swallowed.
H314 Cause	s severe skin burns and eye damage.
Precautiona	ry statements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skir
	with water/shower.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national
	international regulations.
2.3 Other ha	
Results of P.	BT and vPvB assessment
PBT: Not ap	plicable.

• *PBT*: Not applicable. • *vPvB*: Not applicable.

*

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

 \cdot **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous components:

2 ungerous components.		
		25-50%
EINECS: 235-649-0	🛃 C R34; 🗙 Xn R22	
Reg.nr.: 01-2119497988-06-xxxx	📀 Skin Corr. 1B, H314; 아 Acute Tox. 4, H302	
• Additional information For the wo	ording of the listed risk phrases refer to section 16.	
		E

(Contd. on page 3)



(Contd. of page 2)

Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

SECTION 4: First aid measures
• 4.1 Description of first aid measures
· General information
Involve doctor immediately.
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for a
least 48 hours after the accident.
· After inhalation
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
· After skin contact Immediately wash with water and soap and rinse thoroughly.
• After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
If symptoms persist consult doctor.
• 4.2 Most important symptoms and effects, both acute and delayed
Causes severe skin burns and eye damage.
· 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.
SECTION 5: Firefighting measures
· 5.1 Extinguishing media
· Suitable extinguishing agents
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
• For safety reasons unsuitable extinguishing agents Water with full jet.
\cdot 5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Hydrogen chloride (HCl)
Sulphur dioxide (SO2)
· 5.3 Advice for firefighters
· Protective equipment:
Wear fully protective suit.
Wear self-contained respiratory protective device.
SECTION 6: Accidental release measures
· 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water. Do not allow to penetrate the ground/soil.



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

(Contd. of page 3) • **6.3 Methods and material for containment and cleaning up:** Dilute with plenty water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. • **6.4 Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: The product is not flammable
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle. Provide acid-resistant floor.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Storage in a collecting room is required. Keep receptacle tightly sealed.
- Storage class VCI-storage class: 8B not flammable corrosive substances
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 8.2 Exposure controls
- · Personal protective equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not necessary if room is well-ventilated. EN 149: FFP2

(Contd. on page 5)



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

*

· Protection	(Contd. of j
	NBR, Viton
	Protective gloves.
· Material o	of gloves
of quality substance	tion of the suitable gloves does not only depend on the material, but also on further n and varies from manufacturer to manufacturer. As the product is a preparation of se s, the resistance of the glove material can not be calculated in advance and has ther ked prior to the application.
· Penetratio	on time of glove material
	break trough time has to be found out by the manufacturer of the protective gloves an
to be obse	
made of t	ermanent contact in work areas without heightened risk of injury (e.g. Laboratory) g he following material are suitable: bber 0,7 mm, 480 min
~	tion from splashes gloves made of the following materials are suitable:
	bber 0,4 mm, 30 min
· Eye prote	
	Tightly sealed goggles.
· Body prot	ection:
Protective	work clothing.
Boots	

.1 Information on basic physical General Information	and chemical properties
ppearance:	
Form:	Fluid
Colour:	Brown
Ddour:	Characteristic
dour threshold:	Not determined.
H-value at 20 °C:	0
H-value 1 %:	2
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	100 °C
lash point:	Not applicable
lammability (solid, gaseous)	Not applicable.



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

	(Contd. of pag
Ignition temperature:	not applicable
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1,53 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible
Partition coefficient (n-octanol/w	vater): Not determined.
· Viscosity:	
dynamic at 20 °C:	29 mPas
kinematic:	Not determined.
Solvent content:	
Organic solvents:	0,0 %
VOC (EC)	0,00 %
Solids content:	47,0 %
9.2 Other information	No further relevant information available.

,

SECTION 10: Stability and reactivity

- 10.1 Reactivity corresponds to 10.3
- · 10.2 Chemical stability
- *Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.*
- 10.3 Possibility of hazardous reactions
- Reacts with metals forming hydrogen Reacts with alkali (lyes)
- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: organic materials, metals, bases
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

(Contd. on page 7)

EU



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

(Contd. of page 6)

SECTION 11: Toxicological information

• 11.1 Information on toxicological effects • Acute toxicity:

· LD/LC50 values relevant for classification:

Oral LD50 1333 mg/kg (consumer)

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Harmful Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation

of esophagus and stomach.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- AOX: < 10 mg/kg
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

(Contd. on page 8)

⁻EU



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

(Contd. of page 7)

· European waste catalogue

06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

· Uncleaned packaging:

• Recommendation: Non contaminated packagings may be recycled.

• Recommended cleansing agents: Water, if necessary together with cleaning agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN3264
· 14.2 UN proper shipping name · ADR	3264 CORROSIVE LIQUID, ACIDIO
· IMDG, IATA	INORGANIC, N.O.S. (Ferric (III) chloride sulfat CORROSIVE LIQUID, ACIDIC, INORGANI N.O.S. (Ferric (III) chloride sulfate)
· 14.3 Transport hazard class(es)	
· ADR	
AND	
· Class · Label	8 (C1) Corrosive substances. 8
a state of the sta	
· Class	8 Corrosive substances. 8
· Label	8
· 14.4 Packing group · ADR, IMDG, IATA	III
- 14.5 Environmental hazards: - Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler):	Warning: Corrosive substances. 80
• EMS Number: • Segregation groups	F-A,S-B Acids
• 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

	(Contd. of page
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 m
	Maximum net quantity per outer packaging: 100
	ml
UN "Model Regulation":	UN3264, CORROSIVE LIQUID, ACIDIC
0	INORGANIC, N.O.S. (Ferric (III) chlorid
	sulfate), 8, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· National regulations

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. A product information sheet can be provided if requested.

· Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

R22 Harmful if swallowed.

R34 Causes burns.

· Department issuing MSDS: PDE-D

· Contact:

Department PDE-D Tel.: +49-7195-14-2398 Fax : +49-7195-14-3164 safetydata@karcher.com

(Contd. on page 10)

⁻ EU



Printing date 10.01.2015

Version number 3

Revision: 08.01.2015

Trade name: RM 5001

		(Contd. of page
· Abbreviations and a	cronyms:	
ADR: Accord européen s	ur le transport des marchand	lises dangereuses par Route (European Agreement concerning i
International Carriage of	Dangerous Goods by Road)	
IMDG: International Mari	time Code for Dangerous Good	ls
IATA: International Air Tr	ansport Association	
GHS: Globally Harmonise	ed System of Classification and L	Labelling of Chemicals
EINECS: European Invent	ory of Existing Commercial Che	emical Substances
ELINCS: European List of	Notified Chemical Substances	
CAS: Chemical Abstracts	Service (division of the American	n Chemical Society)
VOC: Volatile Organic Co	mpounds (USA, EU)	
LC50: Lethal concentration	n, 50 percent	
LD50: Lethal dose, 50 per	cent	
Met. Corr.1: Corrosive to	metals, Hazard Category 1	
Acute Tox. 4: Acute toxicit	y, Hazard Category 4	
Skin Corr. 1B: Skin corros	ion/irritation, Hazard Category	2 1B
Eye Dam. 1: Serious eye d	amage/eye irritation, Hazard Co	ategory 1
$\cdot *$ Data compared to	the previous version alter	red.
· 0.011-666.0	RM 5001/1.1	1.950