

1 Identification of substance:

- **Product details:**
- **Trade name:** *RM 110 ASF Advance 1*
- **Application of the substance / the preparation** *Scale inhibitor*
- **Manufacturer/Supplier:**

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- **Further information obtainable from:**
*Department PDE-D
Tel.: +49-7195-14-2548
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safetydata@karcher.com*
- **Information in case of emergency:** *Tel.: +49-30-19240*

2 Hazards identification

- **Hazard description:** *not applicable*
- **Information concerning to particular hazards to man and environment**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Additional information:**
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
*Mixture consisting of the following components.
dyes
dispersing agents
preservatives
water*
- **Dangerous components:** *Void*
- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

- **General information** *No special measures required.*
- **After inhalation** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact**
*Generally the product does not irritate the skin.
Rinse with warm water.*
- **After eye contact** *Rinse opened eye for several minutes under running water.*
- **After swallowing**
Rinse out mouth and then drink plenty of water.

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If symptoms persist consult doctor.

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5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose contaminated material as waste according to item 13.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class** VCI storage class: 12

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:** * chemical resistant protective gloves (EN 374)
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:** * butyl rubber 0,7 mm, 480 min

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· As protection from splashes gloves made of the following materials are suitable: * nitril rubber 0,4 mm, 30 min

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Brown
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	0°C
Boiling point/Boiling range:	100°C

· **Flash point:** Not applicable

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 23 hPa

· **Density at 20°C:** 1 g/cm³

· **Solubility in / Miscibility with Water:** Fully miscible

· **pH-value at 20°C:** 7
1 % 7,5

· **Viscosity: dynamic at 20°C:** 3 mPas

· **Solvent content:**

Organic solvents:	0,0 %
Water:	96,8 %

· **Solids content:** 4,2 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information:

- **Information about elimination (persistence and degradability):**

- **Other information:** The product is biodegradable.

- **Additional ecological information:**

- **CSB-value:** 22.000 mg/l

- **General notes:**

The product does not contain organically bounded halogens (AOX-free).

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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

13 Disposal considerations

- **Product:**

- **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **Waste disposal key:** EWC-Code 060314

- **European waste catalogue**

06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
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- **Uncleaned packaging:**

- **Recommendation:** Non contaminated packagings may be recycled.

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

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product has not been classified and marked in accordance with EU Directives / respective national laws.

- **Safety phrases:**

2 Keep out of the reach of children.

- **Special labelling of certain preparations:**

Sensitizing ingredients according to 648/2004/EC:

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· **National regulations**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**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.*

· **Department issuing MSDS:** Department PDE-D· **Contact:***Herr Ritscher, Frau Kühner*

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