

**Safety Data Sheet**

Material: 60121835

**ROADFLEX RF850**  
**(Scale-up Product)**

Version 1.6 (GHS\_INT)

Print Date 07.05.2026

Date of last alteration: 24.04.2026

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** ROADFLEX RF850  
(Scale-up Product)**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial.

Binder for: Construction products .

All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

**1.3 Details of the supplier of the safety data sheet**Manufacturer/distributor: Wacker Chemie AG  
Street/POB-No.: Gisela-Stein-Straße 1  
State/postal code/city: D 81671 München  
Telephone: +49 89 6279-0Information about the Safety Data Sheet: Telephone +49 8677 83-4888  
eMail WLCP-MSDS@wacker.com**1.4 Emergency telephone number**Emergency Information: Europe **+44 1235 239670**  
Emergency Information: Africa and the Middle East **+44 1235 239671**  
Emergency Information: Caribbean, Central America and South America except Chile and Colombia **+1 646 844 7309**  
Emergency Information: Pakistan **+65 3158 1329**  
Emergency Information: Bangladesh **+65 3158 1200**  
Emergency Information: East Asia and Southeast Asia except Sri Lanka, Bangladesh and Pakistan **+65 3158 1074**  
Emergency Information: Sri Lanka **+65 3158 1195****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification	H-Code
Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity - single exposure, Category 3	H335

**2.2 Label elements**

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

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P-Code	Precautionary Statements
P260	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/ doctor.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to waste disposal.

**Hazard ingredients (labelling):**

sodium silicate

Potassium methylsiliconate

**2.3 Other hazards**

Inhalation of aerosol spray may damage health.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures****3.2.1 Chemical characteristics**

mineral additives

**3.2.2 Hazardous ingredients**

Type	CAS-No.	Substance	Content %
INHA	1344-09-8	sodium silicate	>=10 – <25
INHA	31795-24-1	Potassium methylsiliconate	>=5 – <10

Type: INHA: ingredient, VERU: impurity

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

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

Take persons to a safe place. Observe self-protection for first aid. Always seek medical advice in the event of contact with this substance.

**After contact with the eyes:**

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

**After contact with the skin:**

Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance.

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**After inhalation:**

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance.

**After swallowing:**

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

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

Any relevant information can be found in other parts of this section.

**4.3 Indication of any immediate medical attention and special treatment needed**

After inhalation: treat as early as possible using cortisone spray. Medical checks necessary up to a latency period of at least 24 hours. In the event of 1st degree burns use corticoid-externa. In the case of 2nd degree burns, use symptomatic treatment. Further toxicology information in section 11 must be observed.

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

not applicable

**Extinguishing media which must not be used for safety reasons:**

not applicable

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

not applicable

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**General information:**

Product does not burn. Use extinguishing measures appropriate to the source of the fire.

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

Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours. Keep unprotected persons away.

**6.2 Environmental precautions**

Cover sewerage. Contain any fluid that runs out using suitable material (e.g. earth). Dispose of in prescribed marked containers.

**6.3 Methods and material for containment and cleaning up**

Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

**6.4 Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

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

Avoid contact with acids. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection).

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**Precautions against fire and explosion:**

No special precautions against fire and explosion required.

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

Store only in plastic or plastic lined containers.

**Advice for storage of incompatible materials:**

Avoid contact with acids. Observe local/state/federal regulations.

**Further information for storage:**

Keep container tightly closed and store in a cool, well ventilated place.

**Minimum temperature allowed during storage and transportation: 5 °C****7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

Substance	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
Aerosol - inhalable fraction		10,0			

-

The aerosol limit specified is a recommendation should aerosol be formed during processing.

**8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Avoid exposure - obtain special instructions before use. Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Remove contaminated, soaked clothing immediately. Provide emergency shower and eye-bath. Do not eat or drink when handling.

**Further information for system design and engineering measures**

Observe information in section 7.

**Personal protection equipment:****Respiratory protection**

No personal respiratory protective equipment normally required.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

**Eye protection**

Tight fitting protective goggles, according to acknowledged standards such as EN 166, are required.

**Hand protection**

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: &gt; 0,4 mm

Breakthrough time: &gt; 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: &gt; 0,3 mm

Breakthrough time: &gt; 480 min

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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

**Skin protection**

Protective clothing, protective goggles/face protection. Complete head, face and neck protection where there is risk of splashing.

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering sewers or surface waters.

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

Property:	Value:	Method:
<b>Appearance</b>		
Physical state .....	liquid	
Colour.....	colorless transparent	
<b>Odour</b>		
Odour .....	odourless	
<b>Odour limit</b>		
Odour limit.....	no data available	
<b>pH-Value</b>		
pH-Value .....	11 - 12 (26 %)	(DIN/ISO 976)
<b>Melting point/freezing point</b>		
Melting point / melting range .....	0 °C at 1013 hPa	(Lit.)
<b>Initial boiling point and boiling range</b>		
Boiling point / boiling range .....	100 °C at 1013 hPa	(Lit.)
<b>Flash point</b>		
Flash point.....	not applicable	
<b>Evaporation rate</b>		
Evaporation rate .....	no data available	
<b>Upper/lower flammability or explosive limits</b>		
Lower explosion limit .....	not applicable	
Upper explosion limit .....	no data available	
<b>Vapour pressure</b>		
Vapour pressure.....	23 hPa at 20 °C	
<b>Solubility(ies)</b>		
Water solubility .....	no data available	
<b>Vapour density</b>		
Relative gas/vapour density .....	no data available	
<b>Relative Density</b>		
Relative Density .....	1,22 (23 °C)	(DIN EN ISO 2811-1)
	(Water / 4 °C = 1,00)	
Density .....	1,22 g/cm <sup>3</sup> (23 °C)	(DIN EN ISO 2811-1)
<b>Partition coefficient: n-octanol/water</b>		
Partition coefficient: n-octanol/water.....	no data available	
<b>Auto-ignition temperature</b>		
Ignition temperature .....	Not applicable.	
<b>Decomposition temperature</b>		
Thermal decomposition .....	no data available	
<b>Viscosity</b>		
Viscosity, dynamic.....	10 - 15 mPa.s at 23 °C	(Brookfield)
Viscosity, kinematic.....	no data available	
<b>Molecular mass</b>		
Molecular mass .....	not applicable	

**9.2 Other information**

No data available.

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## SECTION 10: Stability and reactivity

### 10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

Reacts with: acids . The reaction takes place with the formation of heat.

### 10.6 Hazardous decomposition products

If stored and handled properly: none known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Acute toxicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Acute toxicity estimate (ATE):**

ATE<sub>mix</sub> (Oral): > 2000 mg/kg

#### 11.1.2 Skin corrosion/irritation

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.3 Serious eye damage/eye irritation

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.4 Respiratory or skin sensitization

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.5 Germ cell mutagenicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.6 Carcinogenicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.7 Reproductive toxicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

#### 11.1.8 Specific target organ toxicity - single exposure

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

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## 11.1.9 Specific target organ toxicity - repeated exposure

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

## 11.1.10 Aspiration hazard

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 11.2.2 Further toxicological information

None known.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Assessment:**

For the product as a whole, no test data is available.

### 12.2 Persistence and degradability

**Assessment:**

For the product as a whole, no test data is available.

### 12.3 Bioaccumulative potential

**Assessment:**

For the product as a whole, no test data is available.

### 12.4 Mobility in soil

**Assessment:**

For the product as a whole, no test data is available.

### 12.5 Results of PBT and vPvB assessment

## PBT assessment

Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.

## vPvB Assessment

Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

none known

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material**

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

**13.1.2 Uncleaned packaging**

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully).

Recommendation:

Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommendation:

Uncleaned packaging should be treated with the same precautions as the material.

Recommended cleaning agent:

water

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR .....: UN3267

RID .....: UN3267

IMDG .....: UN3267

ICAO/IATA .....: UN3267

**14.2 Proper shipping name**

ADR .....: Ätzender basischer organischer flüssiger Stoff, n.a.g. (Kaliummethylsiliconat)

ADR (Domestic transport regulations).....: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Potassium methylsiliconate)

RID .....: Ätzender basischer organischer flüssiger Stoff, n.a.g. (Kaliummethylsiliconat)

RID (Domestic transport regulations) .....: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Potassium methylsiliconate)

IMDG .....: Corrosive liquid, basic, organic, n.o.s. (Potassium methylsiliconate)

ICAO/IATA .....: Corrosive liquid, basic, organic, n.o.s. (Potassium methylsiliconate)

**14.3 Transport hazard class**

ADR .....: 8

(Limited quantity (LQ): 1L)

RID .....: 8

IMDG .....: 8

ICAO/IATA .....: 8

**14.4 Packing group**

ADR .....: II

RID .....: II

IMDG .....: II

ICAO/IATA .....: II

**14.5 Environmental hazards**

Environmentally hazardous: no

Marine pollutant (IMDG): no

**14.6 Special precautions for user**

Relevant information in other sections has to be considered.

**14.7 Maritime transport in bulk according to IMO instruments**

Bulk transport in tankers is not intended.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**15.2 Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

Japan .....	: <b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
New Zealand .....	: <b>NZIoC</b> (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
Australia .....	: <b>AIIC</b> (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China.....	: <b>IECSC</b> (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada .....	: <b>DSL</b> (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	: <b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA).....	: <b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan .....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	: <b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea) .....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

**SECTION 16: Other information****16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

**16.2 Further information:**

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Classification	Rationale:
Skin corrosion/irritation, Category 1A	Calculation method

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Serious eye damage/eye irritation, Category 1	Calculation method
Specific target organ toxicity - single exposure, Category 3	Calculation method

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