

SAFETY DATA SHEET

Roth Compact Flex Fix

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued	17.04.2018
Revision date	17.04.2018

1.1. Product identifier

Product name	Roth Compact Flex Fix
Article no.	S796, S7960
GTIN No.	7054159997967, 70541599979604

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use categories nordic (UCN).	L1040
Use of the substance / preparation	Cement-based flexible adhesive that ensures full adhesive covering and a high adhesive capacity on pressure-resistant EPS and aluminium in connection with laying of tiles on the Roth Compact system or the Roth Clima Comfort system.
Relevant identified uses	SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU19 Building and construction workSU21 Consumer uses: Private households (= general public = consumers)SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)PC1 Adhesives, SealantsPC9 Coatings and Paints, Fillers, Putties, ThinnersPC10 Building and construction substances not covered elsewherePROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)ERC2 Formulation of preparationsERC8C Wide dispersive indoor use resulting in inclusion into or onto a matrix
Standard industrial classification (NACE)	23.650

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	Roth North Europe A/S
Office address	Centervej 5

Postal address	DK-Frederikssund
Postcode	3600
City	Frederikssund
Country	Denmark
Telephone number	+45 47380121
Fax	+45 47380242
Email	service@roth-nordic.dk
Website	http://www.roth-nordic.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: 999 or 112
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SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335
Substance / mixture hazardous properties	The product contains cement mixed with water and is corrosive to skin and eyes.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	White Portland cement 30 – 60 %
Signal word	Danger
Hazard statements	H318 Causes serious eye damage. H315 Causes skin irritation. H335 May cause respiratory irritation.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing dust. P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice / attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P501 Dispose of contents / container to licensed waste disposal site in accordance with local Waste Disposal Authority.

2.3. Other hazards

PBT / vPvB	This product does not contain any PBT or vPvB substances.
Health effect	The product contains cement mixed with water are corrosive to skin and eyes. Dust or splashes from the mixture may cause permanent eye damage.
Environmental effects	The product is not classified as environmentally harmful. Spills and contamination should be avoided. In the presence of water the product hardens to a solid mass which is not biodegradable.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
White Portland cement	CAS No.: 65997-15-1 EC No.: 266-043-4	Eye Dam. 1;H318 Skin Irrit. 2;H315 STOT SE3;H335	30 – 60 %
Description of the mixture	The Safety Data Sheet indicates the product's characteristics in dry condition. The product contains cement mixed with water and is corrosive to skin and eyes.		
Substance comments	The full text for all R-phrases are displayed in section 16. Includes natural sand containing quartz. Respirable quartz is less than 0,1 % (particles <5µm).		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination. Contaminated clothing should be removed immediately. Get medical attention if any discomfort continues.
Inhalation	Fresh air. Ensure free airways, seek medical attention if irritation persists.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	When small amounts (a mouthful or less): Rinse mouth with water. Drink water or milk. Contact your doctor for evaluation. For larger quantities than described above: Rinse mouth with water. Drink water or milk. Seek immediate medical attention.

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

Acute symptoms and effects	Irritating to eyes and skin
Delayed symptoms and effects	Eye contact with cementitious products can cause serious and potential irreversible damage. Fine grained products may itch and cause discomfort and se easy dehydrating.

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

Medical treatment	Symptomatic treatment.
Information on clinical testing	Not known.

Other information	When in doubt, or when symptoms persist – seek medical help. General health check.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Choose in relation to the surrounding fire.
Improper extinguishing media	None.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Not relevant.
Hazardous combustion products	Not relevant.

5.3. Advice for firefighters

Personal protective equipment	No recommendation given.
Fire fighting procedures	Use extinguishing measures appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	Firefighters should use adequate protection.
Other information	Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Use personal protective equipment as specified in section 8.
Personal protection measures	Use specified protective equipment. Avoid inhalation of dust. Avoid contact with skin and eyes. Use recovery methods without development of dust.
Protective equipment	Use personal protective equipment as specified in section 8.
Emergency procedures	Not relevant.
For emergency responders	Use the specified safety equipment. See section 8

6.2. Environmental precautions

Environmental precautionary measures	Collect and dispose of spillage as indicated in section 13.
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6.3. Methods and material for containment and cleaning up

Containment	No recommendation given.
Other information	Larger quantities collected and delivered to approved receiving station for hazard waste. Small quantities taken up mechanically, avoiding dust formation.

6.4. Reference to other sections

Other instructions	See section 1 for emergency contact information. See section 8 for information on appropriate personal equipment. See section 13 for waste disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Follow the instructions. Bags should be handled carefully and stacked well. Avoid dust-forming processing.
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Protective safety measures

Protective safety measures	No recommendation given.
Safety measures to prevent fire	No recommendation given.
Preventitive measures to protect the environment	Avoid dust formation.
Advice on general occupational hygiene	First-aid equipment, including eye wash bottle, must be available at the work site. Provide easy access to water supply and eye wash facilities. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in dry, sealed container.
Conditions to avoid	Avoid contact with moisture and influence of weather.

Conditions for safe storage

Technical measures and storage conditions	No specific measures or conditions indicated.
Packaging compatibilities	Store in tightly sealed original packaging.
Requirements for storage rooms and vessels	Store in a dry place. Store in a closed container.
Advice on storage compatibility	No specific advice on storage is indicated.

7.3. Specific end use(s)

Recommendations	Read the description in the technical datasheet about surface treatment before use.
Specific use(s)	Cement-based flexible adhesive that ensures full adhesive covering and a high adhesive capacity on pressure-resistant EPS and aluminium in connection with laying of tiles on the Roth Compact system or the Roth Clima Comfort system.

SECTION 8: Exposure controls / personal protection

Comments if preventive industrial medical examinations are to be carried out	A need for preventive occupational medical examinations is not indicated.
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8.1. Control parameters

Substance	Identification	Value	TWA Year
Natural sand	CAS No.: 14808-60-7	TWA (8h) : 0,3 mg/m ³ Exposure limit letter Letter description: Total dust TWA (8h) : 0,1 mg/m ³ Exposure limit letter Letter description: Respirable dust	TWA Year: 2010
Silicon dioxide	CAS No.: 69012-64-2	TWA (8h) : 3 mg/m ³ OEL short term value Value: 10 mg/m ³	TWA Year: 2010
Inhalable dust, total dust		TWA (8h) : 10 mg/m ³	TWA Year: 2010
Inhalable dust, respirable dust		TWA (8h) : 5 mg/m ³	TWA Year: 2010
Other Information about threshold limit values	Includes natural sand containing quartz. Respirable quartz is less than 0,1 % (particles <5µm).		

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Instruction on measures to prevent exposure	The usual precautions for handling chemicals should be followed. Ensure that eyewash stations are close to the workstation location.
Technical measures to prevent exposure	Provide adequate general and local exhaust ventilation.

Eye / face protection

Suitable eye protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Eye protection equipment	Description: If risk of splashing, wear safety goggles or face shield. Reference to relevant standard: EN 166

Hand protection

Skin- / hand protection, long term contact	< 8 h Neoprene, nitrile, polyethylene or PVC.
Skin- / hand protection, long term contact	> 8 h Neoprene, nitrile, polyethylene or PVC.
Suitable gloves type	Neoprene, nitrile, polyethylene or PVC.
Breakthrough time	Value: > 480 minute(s) Comments: Breakthrough time for the given glove material.
Hand protection equipment	Reference to relevant standard: EN 374
Hand protection, comments	Prolonged or repeated skin contact may cause drying of the skin and risk of cracking.

Skin protection

Suitable protective clothing	Use suitable protective clothing.
Unsuitable protective clothing	No recommendation given.
Protective clothing necessary properties	Overall suit shall be used where the work involves smudging to such an extent that ordinary working clothes do not protect the skin against contact with the product.
Recommended protective clothing	Description: In case of direct contact or splash, wear protective clothing. Reference to relevant standard: ISO 13688
Skin protection remark	Prolonged or repeated skin contact may lead to dry skin with risk of cracking.

Respiratory protection

Respiratory protection necessary at	Wear respirator if there is dust formation.
Tasks needing respiratory protection	Wear a dust mask class P2 for work in dusty areas.
Recommended respiratory protection	Mask type: Dust filter P2 (for fine dust). Reference to relevant standard: EN 143
Additional respiratory protection measures	Provide sufficient ventilation for operations causing dust formation.

Thermal hazards

Thermal hazards	Not known.
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Hygiene / environmental

Specific hygiene measures	Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.
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Appropriate environmental exposure control

Environmental exposure controls	The product must not be discharged directly into drains or waterways without treatment.
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Exposure controls

Safety measures for consumer use of the chemical	Use the specified safety equipment. See section 8. Follow the label instructions.
Exposure controls and personal protection, additional information	All protection should be CE marked. Contaminated clothes should be laundered before reuse.
Exposure controls, comments	Wash hands before breaks, lavatory and before leaving the work site.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Powder.
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Colour	Light gray
Odour	No characteristic odour.
pH	Status: In aqueous solution Value: ~ 12 Comments: Miscible with water.
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Bulk density	Value: ~ 1500 kg/m ³
Solubility	Comments: Miscible with water.
Partition coefficient: n-octanol/water	Comments: Not known.
Spontaneous combustability	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Comments: Not relevant.
Explosive properties	No explosive properties.
Oxidising properties	No oxidizing properties.

9.2. Other information

Physical hazards

Miscibility	Miscible with water.
Conductivity	Comments: Not relevant.
Solvent content	Comments: Not relevant.
Pour point	Comments: Not relevant.
Particle size	Value: 0 – 0,4 mm
Critical pressure	Comments: Not relevant.
Expansion coefficient	Comments: Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No hazardous reactions if regulations/notes for storage and handling are observed.
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10.2. Chemical stability

Stability	Stable under recommended storage conditions – see Section 7.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Stable under recommended storage conditions – see Section 7.
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10.4. Conditions to avoid

Conditions to avoid	The product will harden into a hard mass in contact with water and moisture.
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10.5. Incompatible materials

Materials to avoid	Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products when handled and stored properly.
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Other information

Other information	The powder reacts with water to form strongly alkaline solution of calcium hydroxide.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

Toxicokinetics	Not known.
Skin corrosion / irritation, human experience	The product contains cement mixed with water and is corrosive to skin and eyes.
Assessment of skin corrosion / irritation, classification	Corrosive and causes burning pain, redness, blistering and etching by skin contact.
Assessment of eye damage or irritation, classification	The product contains cement mixed with water and is corrosive to skin and eyes.
General respiratory or skin sensitisation	Inhalation of dust may cause irritation of the respiratory tract.
Respiratory sensitisation other information	Dust in high concentrations may irritate the respiratory system.
Inhalation	Frequent and prolonged inhalation of dust increases the risk of developing lung diseases.
Skin contact	The symptoms are redness, swelling, blistering and ulceration and usually develops slowly.
Eye contact	Risk of serious eye damage
Ingestion	Not relevant.
Sensitisation	The product is not classified as allergenic.
Mutagenicity	Not relevant.
Assessment of germ cell mutagenicity, classification	Not relevant.

Carcinogenicity, other information	Not relevant.
Carcinogenicity human experience	Not relevant.
Reproductive toxicity	Not relevant.
Reproductive toxicity, human experience	Not relevant.
Assessment of reproductive toxicity, classification	Not relevant.

Symptoms of exposure

In case of ingestion	Not relevant.
In case of skin contact	Symptoms include redness, swelling, blisters and ulceration and are usually developed slowly.
In case of inhalation	High concentrations of dust may irritate throat and respiratory system and cause coughing.
In case of eye contact	Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary.
Other information	Health hazard is dependent on the use and protection measures.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product is not expected to be toxic to aquatic organisms. LC50 values for toxicity in water is not proven. However, mixing of cement in water increase the water's pH and therefore has some toxic effect on aquatic organisms under certain conditions.
Aquatic, comments	Not classified as dangerous for the environment. However, the product must not be discharged into drains or water courses or deposited where it can affect ground or surface waters.

12.2. Persistence and degradability

Persistence and degradability description	This product does not contain any PBT or vPvB substances.
Biodegradability	Comments: The Product is not biodegradable.
Chemical oxygen demand (COD)	Comments: Not known.
Biological oxygen demand (BOD)	Comments: Not known.
Persistence and degradability, comments	The product is not biodegradable, but will harden in contact with water.

12.3. Bioaccumulative potential

Bioaccumulative potential	No bioaccumulation is indicated.
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12.4. Mobility in soil

Mobility	Not considered mobile.
Surface tension	Comments: Not known.

12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
vPvB evaluation results	The product contains no PBT or vPvB substances.

12.6. Other adverse effects

Other adverse effects, comments	None known.
Environmental details, summation	Do not allow the product to reach ground water, water course or sewage. When the product is used for the specified purpose and handled according to directions, the risk of negative environmental impact is minimal .

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not allow runoff to sewer, waterway or ground. Cured material is not hazardous waste. Dispose of according to local regulations on municipal waste site. Concrete debris and waste can be recycled or used as filling material. The below listed hazardous waste codes (EWC) are a guide. User must set the appropriate EWC code for own specific use.
EWC waste code	EWC waste code: 170106 mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances Classified as hazardous waste: Yes EWC waste code: 170101 concrete Classified as hazardous waste: No
EWL packing	EWC waste code: 150101 paper and cardboard packaging Classified as hazardous waste: Yes
Other information	Empty and cleaned packaging can be recycled.

SECTION 14: Transport information

Dangerous goods	No
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14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

Additional information

Additional information	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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SECTION 15: Regulatory information

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

Assessed restrictions	By assessment no identified restrictions.
Restriction of chemicals according to Annex XVII (REACH)	No restrictions identified.
Other labelling requirements	No other labeling requirements.
Other label information	Not relevant.
EU occupational restrictions	No restrictions identified.
References (laws/regulations)	EU Regulation No. 1907/2006 (REACH) Title IV, art. 31 and Annex II. EU Regulation on classification labeling and packaging of substances and preparations (abbreviated CLP) (EC) No 1272/2008 Annex XIV – List of substances subject to authorization. Substances that give great cause for concern. Annex XVII – Restrictions on the production, marketing and use of certain hazardous substances. Regulation 704 on occupational limit values with changes. EU Waste regulation (EU) nr. 413/2010 with changes ADR / RID 2017 Regulation No. 384 01 April 2009.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
Chemical safety assessment	Not determined.
Exposure scenarios for mixture	No

SECTION 16: Other information

Supplier's notes	Information provided in the safety data sheet is prepared on the basis of information supplied by subcontractors, and according to information in our possession at the last entered revision date. The information is to be regarded as guidelines for safe use, processing, storage and transportation. It is assumed that the product is used in accordance with the description on the packaging or in the technical data sheet/product data sheet prepared by Roth North Europe A/S. Any other use of the product, if necessary in combination with other products or processes are not recommended, unless otherwise agreed with Roth North Europe A/S.
List of relevant H-phrases (Section 2 and 3)	H315 Causes skin irritation. H318 Causes Serious eye damage.

	H318 Causes serious eye damage. H335 May cause respiratory irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335
Version	1