

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 08/01/2011 Revision date: 27/02/2024 Supersedes version of: 12/02/2024 Version: 3.1

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

1.1. Product identifier

Product form : Mixture
Product name : Rescocast 9

UFI : 81V1-G08U-X000-7TWM

CAS-No. : Mixture
Product code : 0676
Product group : Finished Good

Other means of identification : Alumina-Silicate Cement Bonded Castable

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial use Use of the substance/mixture : Refractory

1.2.2. Uses advised againstNo additional information available

1.3. Details of the supplier of the safety data sheet

Resco Products (UK) Limited

Newbold Works, Melbourne Road, Lount

LE65 1PL Ashby-de-la-Zouch

England

T 44 (0) 1530 222694

<u>UK.SDS@RescoProducts.com</u> - <u>www.RescoProducts.com</u>

1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Specific target organ toxicity - Repeated exposure, Category 2 H373

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

Adverse physicochemical, human health and environmental effects

This product contains Quartz (Fine Fraction) between 0.1 to 10% and is classified as STOT RE 2 according to criteria defined in the Regulation EC 1272/2008 and does not meet the criteria for classification as harmful according to directive 67/548/EC.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS08 GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H373 - May cause damage to organs (respiratory system) through prolonged or repeated

exposure (if inhaled).

Precautionary statements (CLP) : P260 - Do not breathe dust.

P280 - Wear eye protection, protective gloves.

P284 - In case of inadequate ventilation wear respiratory protection.

P314 - Get medical advice/attention if you feel unwell.

2.3. Other hazards

Other hazards which do not result in classification : Irritating to eyes and skin.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

	Component		
	quartz, 1%≤conc respirable crystalline silica<10%	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	(14808-60-7)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
cristobalite EU (14464-46-1)		This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	, , , , , , , , , , , , , , , , , , ,	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]
Calcium Aluminate Cement	CAS-No.: 65997-16-2	20 – 50	Not classified
	EC-No.: 266-045-5		
cristobalite EU	CAS-No.: 14464-46-1	5 – 10	STOT RE 2, H373
	EC-No.: 238-455-4		
quartz, 1%≤conc respirable crystalline silica<10%	CAS-No.: 14808-60-7	1 – 5	STOT RE 1, H372
	EC-No.: 238-878-4		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.

Wash with plenty of water/...

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a

POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects after inhalation Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact Causes eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not flammable. Explosion hazard None. Hazardous decomposition products in case of fire None

5.3. Advice for firefighters

Firefighting instructions Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering

the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Safety glasses. [In case of inadequate ventilation] wear respiratory protection. Protective Protective equipment

gloves.

Emergency procedures Do not breathe dust. Measures in case of dust release Ventilate area. 6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Mechanically recover the product. On land, sweep or shovel into suitable containers.

Minimise generation of dust.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid raising dust. Avoid contact with skin and eyes. Do not breathe dust.

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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store this product in a dry location where it can be protected from the elements.

Incompatible products : Strong bases. Strong acids. Incompatible materials : Strong acids, bases.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	0.1 mg/m³ (Respirable fraction)	
Belgium - Occupational Exposure Limits		
OEL TWA	0.1 mg/m³	
France - Occupational Exposure Limits		
VME (OEL TWA)	0.1 mg/m³ (La valeur limite concerne la fraction alvéolaire)	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	0.075 mg/m³ (respirabele fractie)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	0.1 mg/m ³	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	0.1 mg/m ³	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)	
cristobalite EU (14464-46-1)		
Belgium - Occupational Exposure Limits		
OEL TWA	0.05 mg/m³	
France - Occupational Exposure Limits		
VME (OEL TWA)	0.05 mg/m³ (La valeur limite concerne la fraction alvéolaire)	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	0.075 mg/m³ (respirabele fractie)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	0.1 mg/m ³	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	0.05 mg/m³	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : brown.

Appearance : Granular mixture.

Odour earthy. Not available Odour threshold Melting point > 1427 °C Not available Freezing point Boiling point Not available Flammability Not flammable Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature Not available 10.5 pH solution concentration 10 %

pH solution concentration : 10 %
Viscosity, kinematic : Not Applicable
Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : Not available
Relative density : ≈ 1.2

Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature : Not applicable

9.2.2. Other safety characteristicsNo additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Hydraulic setting.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Not classified (Conclusive but not sufficient for classification)

pH: 10.5

Additional information : Causes skin irritation.

Calcium Aluminate Cement (65997-16-2	2)
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pH ≤ 13

quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)

pH 6-7

cristobalite EU (14464-46-1)

pH 6-7

Serious eye damage/irritation : Not classified (Conclusive but not sufficient for classification)

pH: 10.5

Additional information : Causes eye irritation

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Calcium Aluminate Cement (65997-16-2)			
рН	≤ 13		
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)		
рН	6 – 7		
cristobalite EU (14464-46-1)			
pH	6 – 7		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Additional information Reproductive toxicity STOT-single exposure STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Conclusive but not sufficient for classification) May cause cancer by inhalation. Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled). (Based on available data, the classification criteria are not met)		
quartz, 1%≤conc respirable crystalline silica<	urtz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (if inhaled).		
cristobalite EU (14464-46-1)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (if inhaled).		
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)		
Rescocast 9 (Mixture)			
Viscosity, kinematic	Not Applicable		
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)		
Viscosity, kinematic	Not applicable (solid)		
11.2. Information on other hazards			

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and : Based on available data, the classification criteria are not met

symptoms

SECTION 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general

effects in the environment. : Not classified

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

12.2. Persistence and degradability

Rescocast 9 (Mixture)	scocast 9 (Mixture)	
Persistence and degradability	Not established.	
µuartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
ristobalite EU (14464-46-1)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

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Transport by sea
Not regulated
Air transport
Not regulated

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12.3. Bioaccumulative potential			
Rescocast 9 (Mixture)			
Bioaccumulative potential	Not established.		
quartz, 1%≤conc respirable crystalline silica			
Bioaccumulative potential	No bioaccumulation data available.		
cristobalite EU (14464-46-1)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
quartz, 1%≤conc respirable crystalline silica			
Surface tension Ecology - soil	No data available in the literature Low potential for mobility in soil.		
cristobalite EU (14464-46-1)	Low potential for mobility in soil.		
Ecology - soil	No data available.		
12.5. Results of PBT and vPvB assessment	140 data avallabic.		
Component quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
cristobalite EU (14464-46-1)	This substance/mixture does not meet the VPVB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPVB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPVB criteria of REACH regulation, annex XIII		
12.6. Endocrine disrupting properties	- The Control of the		
No additional information available			
12.7. Other adverse effects			
Additional information	: No other effects known		
SECTION 13: Disposal considerations	. No other enects known		
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.		
HP Code	: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.		
SECTION 14: Transport information	acute toxic circus following aspiration.		
In accordance with ADR / IMDG / IATA / RID			
14.1. UN number or ID number			
Not regulated for transport			
14.2. UN proper shipping name	. Net associated		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: Not regulated : Not regulated		
Proper Shipping Name (IATA)	: Not regulated		
Proper Shipping Name (RID)	: Not regulated		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not regulated		
IMDG Transport hazard class(es) (IMDG)	: Not regulated		
Transport hazard class(es) (IATA)	: Not regulated		
Transport hazard class(es) (RID)	: Not regulated		
14.4. Packing group			
Packing group (ADR)	: Not regulated		
Packing group (IMDG) Packing group (IATA)	: Not regulated : Not regulated		
Packing group (RID)	: Not regulated		
14.5. Environmental hazards			
Dangerous for the environment	: No		
Marine pollutant	: No		
Other information	: No supplementary information available		
14.6. Special precautions for user			
Overland transport			
Not regulated Transport by sea			

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Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer) **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 25	Diseases resulting from the inhalation of mineral dust containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite or coal.	

Germany

Water hazard class (WGK)

Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BImSchV)

Netherlands

Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

SZW-lijst van kankerverwekkende stoffen

Calcium Aluminate Cement, quartz, 1%≤conc respirable crystalline silica<10%, cristobalite

EU are listed

SZW-lijst van mutagene stoffen

Calcium Aluminate Cement is listed

SZW-lijst van reprotoxische stoffen - Borstvoeding

None of the components are listed

SZW-lijst van reprotoxische stoffen -

None of the components are listed

Vruchtbaarheid

: None of the components are listed

SZW-lijst van reprotoxische stoffen - Ontwikkeling **Denmark**

Young people below the age of 18 years are not allowed to use the product

Danish National Regulations

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information Report language name. English. In the event of any conflict between the English and other language versions, the English version shall prevail.

Full text of H- and E	Full text of H- and EUH-statements:		
H372 Causes damage to organs through prolonged or repeated exposure.			
H373	May cause damage to organs through prolonged or repeated exposure.		
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		

Safety Data Sheet (SDS), EU

Although reasonable care has been taken in the preparation of the information contained herein, Resco extends no warranties, makes no representation and assumes no responsibilty as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

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