

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/8/2015 Revision date: 7/9/2023 Supersedes version of: 18/8/2015 Version: 2.0

SECTION 1: Identification of the substan	ce/mixture and of the company/undertaking
1.1. Product identifier	
Product form : Product name : UFI : CAS-No. : Product code : Product group : Other Means of Identification :	Mixture Rescocast 17EC QKT0-50CT-400X-6966 Mixture 0298 Finished Good Alumina-Silicate Cement Bonded Castable
1.2. Relevant identified uses of the substance	
1.2.1. Relevant identified usesIndustrial/Professional use specUse of the substance/mixture1.2.2. Uses advised againstNo additional information available	Industrial use Refractory
<b>1.3. Details of the supplier of the safety data</b>	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.</u>	com
1.4. Emergency telephone number	
Emergency number :	EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300 Outside USA & Canada +1 703-741-5970
<b>SECTION 2: Hazards identification</b>	
2.1. Classification of the substance or mixtur	e
Adverse physicochemical, human health and envir This product contains Quartz (Fine Fraction) between 1272/2008 and does not meet the criteria for classifica 2.2. Label elements Labelling according to Regulation (EC) No. 1272/20 Hazard pictograms (CLP)	0.1 to 10% and is classified as STOT RE 2 according to criteria defined in the Regulation EC tion as harmful according to directive 67/548/EC
5 ( )	Warning H373 - May cause damage to organs (respiratory system) through prolonged or repeated
Precautionary statements (CLP)	<ul> <li>P260 - Do not breathe dust.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P284 - In case of inadequate ventilation wear respiratory protection.</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> </ul>
2.3. Other hazards	
Other hazards which do not result in classification Contains no PBT/vPvB substances ≥ 0.1% assessed in	Irritating to eyes and skin. n accordance with REACH Annex XIII
Component	
cristobalite (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
aluminium oxide, non-fibrous (1344-28-1)	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
properties, or is not identified as having endocrine disr (EU) 2017/2100 or Commission Regulation (EU) 2018/	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 list established in accordance with Article 59(1) of REACH for having endocrine disrupting upting properties in accordance with the criteria set out in Commission Delegated Regulation /605 at a concentration equal to or greater than 0,1 %
SECTION 3: Composition/information or 3.1. Substances	
Not applicable	

## Safety Data Sheet

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium Aluminate Cement	CAS-No.: 65997-16-2 EC-No.: 266-045-5	20 – 50	Not classified
cristobalite	CAS-No.: 14464-46-1 EC-No.: 238-455-4	10 – 20	STOT RE 1, H372
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1 EC-No.: 215-691-6	5 – 10	Not classified
quartz, 1%≤conc respirable crystalline silica<10% substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	1 – 5	STOT RE 1, H372
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       :	advice (show the label wh Allow affected person to b	ere possible). reathe fresh a	
	present and easy to do. C	usly with water	for several minutes. Remove contact lenses, if g.
		uce vomiting.	Obtain emergency medical attention.
4.2. Most important symptoms and effects, be Symptoms/effects after inhalation	-	lation Dance	r of serious damage to health by prolonged
Symptoms/effects after skin contact :	exposure through inhalati Causes skin irritation.		for senous damage to health by prolonged
	Causes eye irritation.	mont noodo	4
4.3. Indication of any immediate medical attention additional information available	itton and special treat	nent needed	1
SECTION 5: Firefighting measures			
5.1. Extinguishing media Suitable extinguishing media	Use extinguishing media	appropriate for	surrounding fire
Unsuitable extinguishing media :	In case of fire, all extingui	shing media al	llowed.
5.2. Special hazards arising from the substan	ce or mixture		
	Not flammable.		
5.3. Advice for firefighters			
	the environment.		nical fire. Prevent fire fighting water from entering
		iout proper pro	tective equipment, including respiratory protection.
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipme	ent and emergency pro	ocedures	
6.1.1. For non-emergency personnel         Protective equipment       :         Emergency procedures       :         Measures in case of dust release       :	Safety glasses. [In case of Do not breathe dust. Avoi Ventilate area.		entilation] wear respiratory protection. Gloves. skin and eyes.
6.1.2. For emergency responders Protective equipment Emergency procedures	Equip cleanup crew with p Ventilate area. On land, s		
6.2. Environmental precautions	termate area. orriand, o		
Prevent entry to sewers and public waters.			
6.3. Methods and material for containment an	d cleaning up		
	On land, sweep or shovel	into suitable c	ontainers. Minimise generation of dust.
6.4. Reference to other sections			
See Section 8. Exposure controls and personal protect	ion.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling Precautions for safe handling :	Do not handle until all cof	aty precaution	s have been read and understood. Avoid raising
-	dust. Avoid contact with s	kin and eyes. I posed areas w	
7.2. Conditions for safe storage, including an		-	
Storage conditions :	Store this product in a dry		e it can be protected from the elements.
Incompatible products :	Strong bases. Strong acid	ls.	

## Safety Data Sheet

7.2 Specific and use(a)	
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/persona	l protection
8.1. Control parameters	
8.1.1 National occupational exposure and biologic	al limit values
cristobalite (14464-46-1)	
Belgium - Occupational Exposure Limits	
OEL TWA France - Occupational Exposure Limits	0.05 mg/m <sup>3</sup>
VME (OEL TWA)	0.05 mg/m <sup>3</sup> (La valeur limite concerne la fraction alvéolaire)
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	0.075 mg/m <sup>3</sup> (respirabele fractie)
United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1]	0.1 mg/m <sup>3</sup>
USA - ACGIH - Occupational Exposure Limits	0.1 mg/m
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> respirable dust
aluminium oxide, non-fibrous (1344-28-1)	
Belgium - Occupational Exposure Limits OEL TWA	4
France - Occupational Exposure Limits	1 mg/m <sup>3</sup>
VME (OEL TWA)	10 mg/m <sup>3</sup>
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>
USA - ACGIH - Occupational Exposure Limits	4 mg/m <sup>3</sup>
ACGIH OEL TWA	1 mg/m <sup>3</sup> respirable dust
quartz, 1%≤conc respirable crystalline silica	
<b>EU - Indicative Occupational Exposure Limit (IOEL</b>	)
IOEL TWA	0.1 mg/m <sup>3</sup> (Respirable fraction)
Belgium - Occupational Exposure Limits OEL TWA	0.1 mg/m <sup>3</sup>
France - Occupational Exposure Limits	0.1 mg/m²
VME (OEL TWA)	0.1 mg/m <sup>3</sup> (La valeur limite concerne la fraction alvéolaire)
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA) United Kingdom - Occupational Exposure Limits	0.075 mg/m <sup>3</sup> (respirabele fractie)
WEL TWA (OEL TWA) [1]	0.1 mg/m <sup>3</sup>
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (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:	
Provide adequate ventilation to minimize dust concent	rations.
8.2.2. Personal protection equipment	
Personal protective equipment:	
Avoid all unnecessary exposure. 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:	
Protective clothing	
Hand protection:	
Wear protective gloves. 8.2.2.3. Respiratory protection	
Respiratory protection:	
Wear a mask	
8.2.2.4. Thermal hazards No additional information available	
8.2.3. Environmental exposure controls	
Other information:	
Do not eat, drink or smoke during use.	

## Safety Data Sheet

SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical and chem	ical properties
Physical state	: Solid
Colour Appearance	: Light grey. : Granular mixture.
Odour	earthy.
Odour threshold	Not available
Melting point	: >1370 °C
Freezing point	: Not available
Boiling point	Not available
Flammability Lower explosion limit	: Not flammable : Not applicable
Upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH pH solution	: Not available : Not available
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 Relative density	: Not available : ≈ 2.1
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 c	2020
No additional information available	
9.2.2. Other safety characteristics	
No 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	
No additional information available	
<b>SECTION 11: Toxicological information</b>	
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008
	: Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	: Not classified
aluminium oxide, non-fibrous (1344-28-1)	
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	<ul> <li>&gt; 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental</li> </ul>
	value, Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation	Not classified
Additional information	: Causes skin irritation.
Calcium Aluminate Cement (65997-16-2)	
	≤13
cristobalite (14464-46-1) pH	6-7
aluminium oxide, non-fibrous (1344-28-1)	
pH	9 – 10.5 (aqueous suspension, 33 %)
quartz, 1%≤conc respirable crystalline silica•	
pH	6-7
·	

## Safety Data Sheet

Serious eye damage/irritation :	Not classified
Calcium Aluminate Cement (65997-16-2)	
pH	≤ 13
cristobalite (14464-46-1)	
pH	6 - 7
aluminium oxide, non-fibrous (1344-28-1)	
pH	9 – 10.5 (aqueous suspension, 33 %)
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)
рН	6 - 7
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified Not classified
STOT-single exposure : STOT-repeated exposure :	May cause damage to organs (respiratory system) through prolonged or repeated exposure
	(if inhaled).
cristobalite (14464-46-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (if inhaled).
quartz, 1%≤conc respirable crystalline silica<	10% (14808-60-7)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (if inhaled).
Aspiration hazard :	Not classified
Rescocast 17EC (Mixture)	
Viscosity, kinematic	Not Applicable
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
quartz, 1%≤conc respirable crystalline silica<	
Viscosity, kinematic	Not applicable (solid)
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
No additional information available	
<b>11.2.2. Other information</b> Potential adverse human health effects and :	Peeed on synilable data, the eleccification aritaria are not mat
symptoms	Based on available data, the classification criteria are not met
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	Not classified
12.1. Toxicity	Not classified
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short–term : (acute)	Not classified Not classified
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short–term : (acute) Hazardous to the aquatic environment, long–term : (chronic)	
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic)         aluminium oxide, non-fibrous (1344-28-1)	Not classified
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study)
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1]	Not classified
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability</b>	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study)
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b>	Not classified  > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study)
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study)
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>cristobalite (14464-46-1)</b>	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.         Mineral. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.         Mineral. Not applicable.         Not applicable         Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Mineral. Not applicable. Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.         Mineral. Not applicable.         Not applicable         Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable. Not applicable
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>guartz, 1%≤conc respirable crystalline silica&lt;</b>	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>BOD (% of ThOD) aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         Persistence and degradability         Chemical oxygen demand (COD)         ThOD         Persistence and degradability	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable. Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>guartz, 1%≤conc respirable crystalline silica&lt;*</b> Persistence and degradability         Chemical oxygen demand (COD)	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>guartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica</b> <	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>12.3. Bioaccumulative potential Rescocast 17EC (Mixture)</b>	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.         Mineral. Not applicable.         Not applicable         Not applicable (inorganic)         Not applicable (inorganic)         Not applicable (inorganic)
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>12.3. Bioaccumulative potential Rescocast 17EC (Mixture)</b> Bioaccumulative potential	Not classified > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established. Not established. Mineral. Not applicable. Not applicable Not applicable Not applicable Not applicable. Not applicable.
<b>12.1. Toxicity</b> Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic) <b>aluminium oxide, non-fibrous (1344-28-1)</b> LC50 - Fish [1]         EC50 - Crustacea [1] <b>12.2. Persistence and degradability Rescocast 17EC (Mixture)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability <b>Cristobalite (14464-46-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD) <b>aluminium oxide, non-fibrous (1344-28-1)</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>quartz, 1%≤conc respirable crystalline silica&lt;</b> Persistence and degradability         Chemical oxygen demand (COD)         ThOD <b>12.3. Bioaccumulative potential Rescocast 17EC (Mixture)</b> Bioaccumulative potential <b>Cristobalite (14464-46-1)</b>	Not classified  > 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study) Not established.  Not established.  Mineral. Not applicable. Not applicable Not appl
12.1. Toxicity         Hazardous to the aquatic environment, short-term : (acute)         Hazardous to the aquatic environment, long-term : (chronic)         aluminium oxide, non-fibrous (1344-28-1)         LC50 - Fish [1]         EC50 - Crustacea [1]         12.2. Persistence and degradability         Rescocast 17EC (Mixture)         Persistence and degradability         Cristobalite (14464-46-1)         Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         aluminium oxide, non-fibrous (1344-28-1)         Persistence and degradability         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         aluminium oxide, non-fibrous (1344-28-1)         Persistence and degradability         Chemical oxygen demand (COD)         ThOD         quartz, 1%≤conc respirable crystalline silica<	Not classified          > 100 mg/l (96 h, Salmo trutta, Literature study)         > 100 mg/l (48 h, Daphnia magna, Literature study)         Not established.         Mineral. Not applicable.         Not applicable         Not applicable (inorganic)         Not applicable (inorganic)

## Safety Data Sheet

aluminium anida man (ilumus (40.44.00.4)	
aluminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential	No data available.
quartz, 1%≤conc respirable crystalline silica	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.
aluminium oxide, non-fibrous (1344-28-1)	
Surface tension	No data available in the literature No data available.
Ecology - soil quartz, 1%≤conc respirable crystalline silica	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
12.5. Results of PBT and vPvB assessment	
Component	
cristobalite (14464-46-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
aluminium oxide, non-fibrous (1344-28-1)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII 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
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
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
Additional information	: No other effects known
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	: 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	
In accordance with ADR / IMDG / IATA / RID	
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
	: Not regulated
	: Not regulated : Not regulated
Proper Shipping Name (IATA) Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
IMDG	: Not regulated
Transport hazard class(es) (IMDG)	: Not regulated
Transport hazard class(es) (IATA) RID	: Not regulated
	: Not regulated
14.4. Packing group	
	: Not regulated
Packing group (IMDG) Packing group (IATA)	: Not regulated : Not regulated
	: Not regulated
14.5. Environmental hazards	
0	: No
	: No
14.6. Special precautions for user	: No supplementary information available
Overland transport	
Not regulated	
Transport by sea	
Not regulated	

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Air transport

Not regulated

#### 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

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	

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 of the Hazardous Incident Ordinance (12. BImSchV)
SZW-lijst van kankerverwekkende stoffen	:	Calcium Aluminate Cement,cristobalite,quartz, 1%≤conc respirable crystalline silica<10% 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 – Vruchtbaarheid	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling Denmark	:	None of the components are listed
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product 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 EUH	I-statements:
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

Specific target organ toxicity - Repeated exposure, Category 1 STOT RE 1

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 responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.